

FIG. 1A (PRIOR ART)

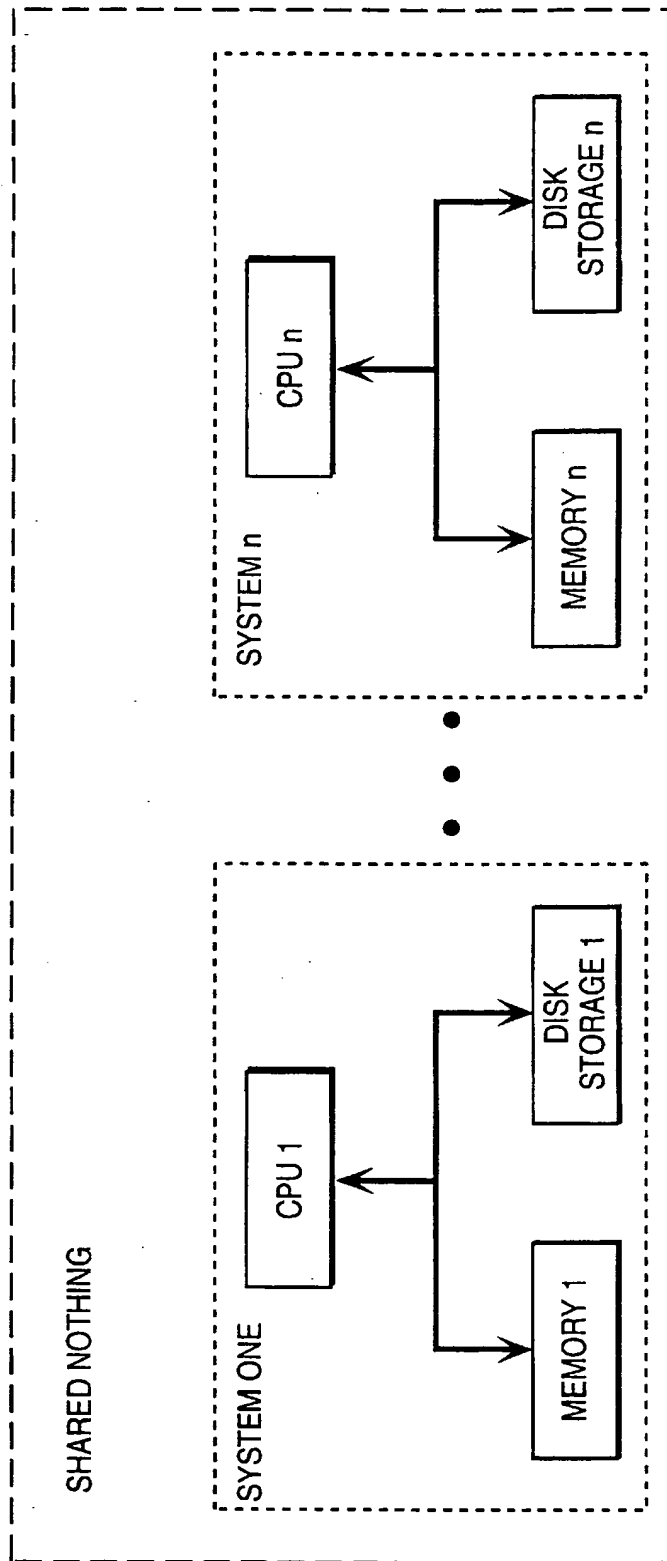


FIG. 1B (PRIOR ART)

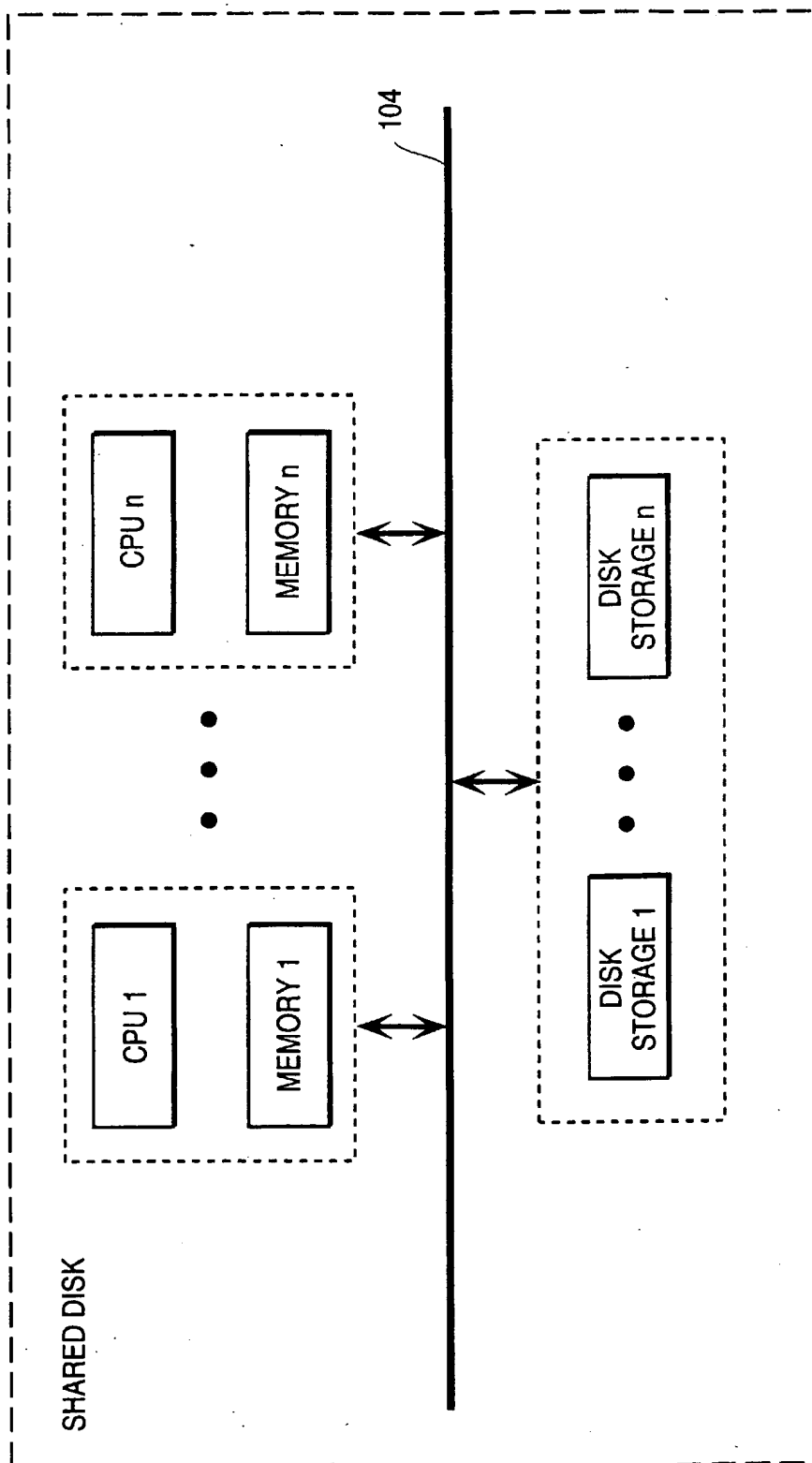


FIG. 1C (PRIOR ART)

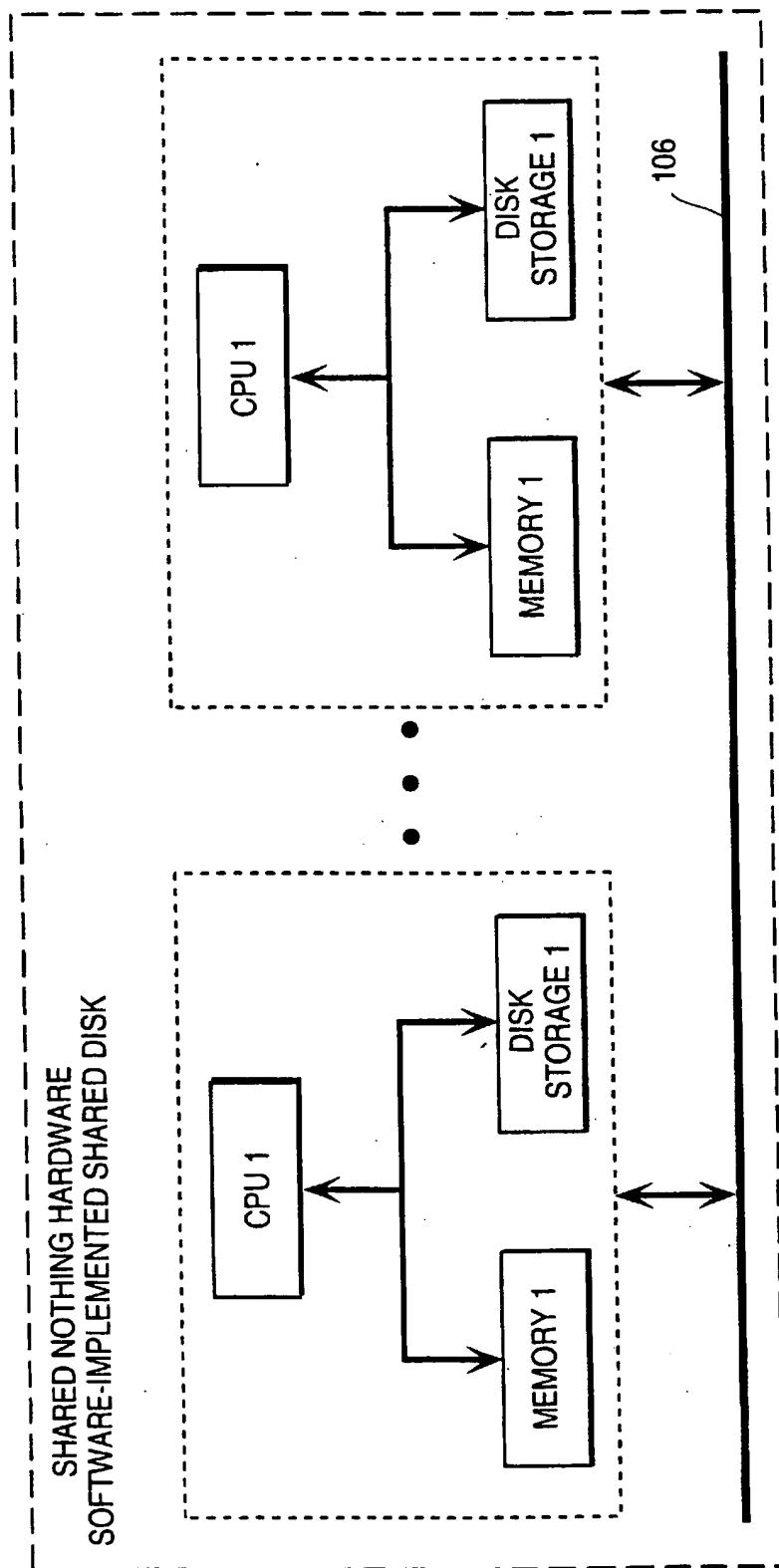


FIG. 1D (PRIOR ART)

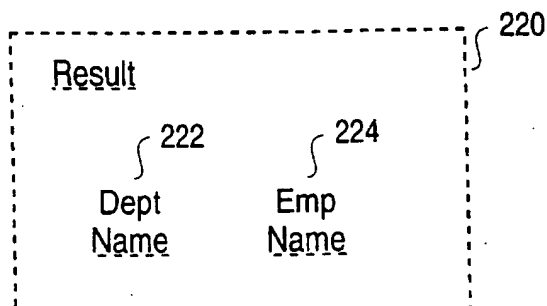
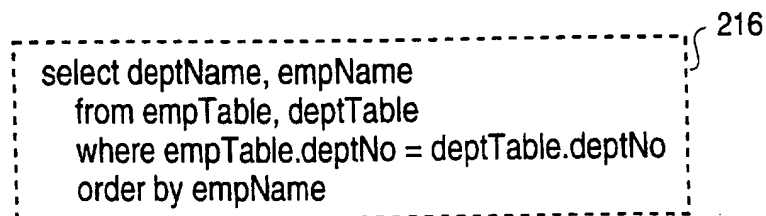
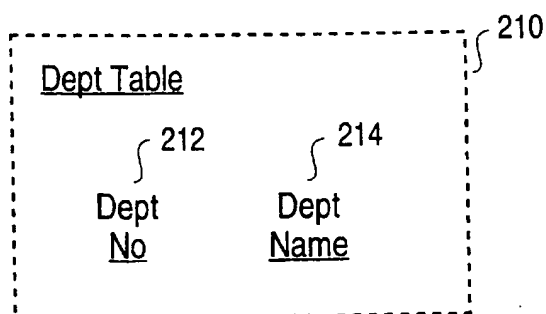
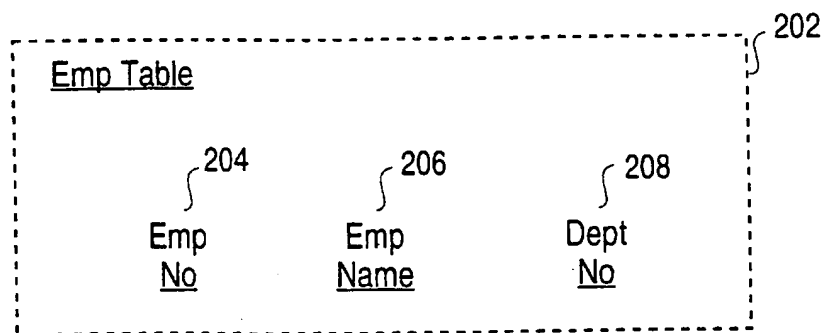
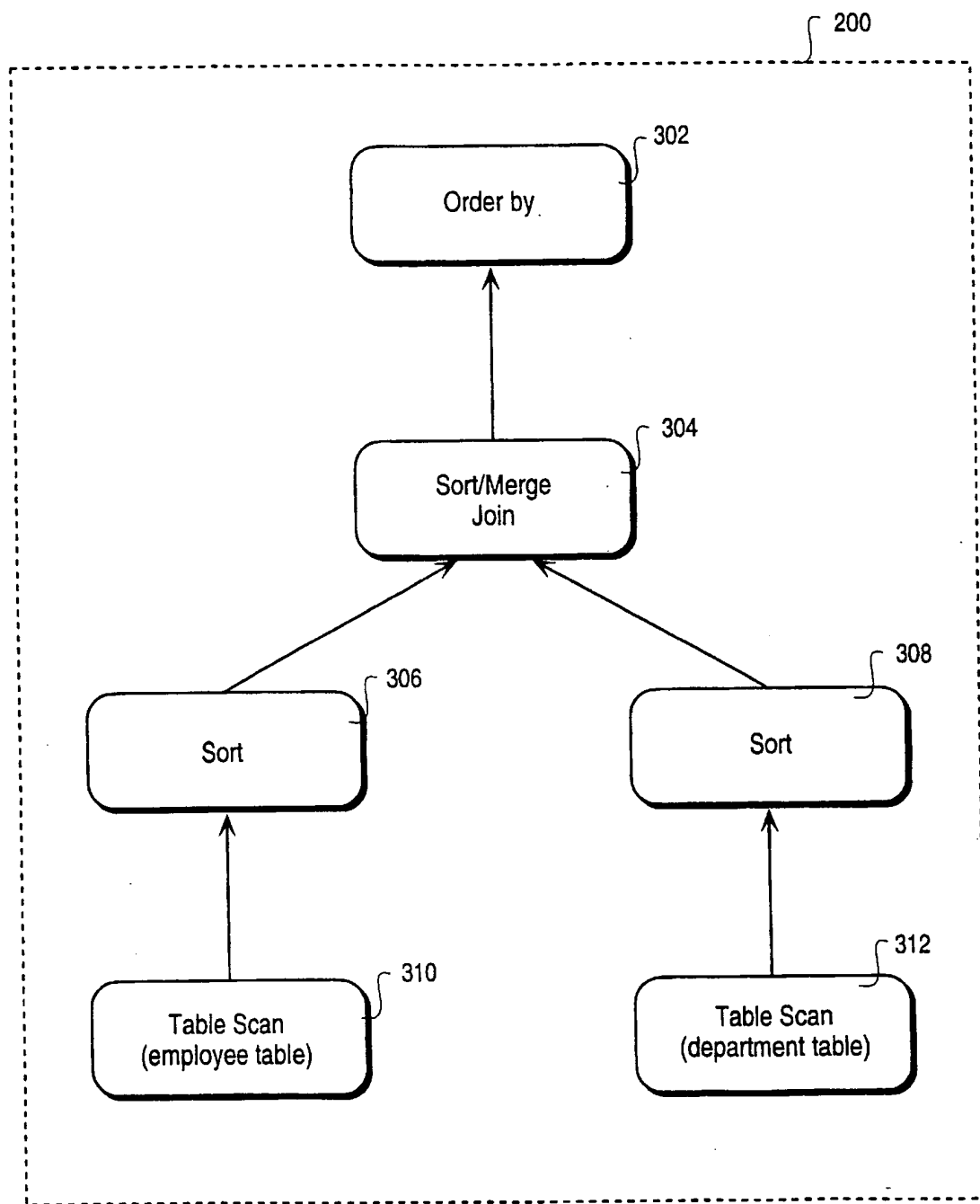


FIG. 2

**FIG. 3A**

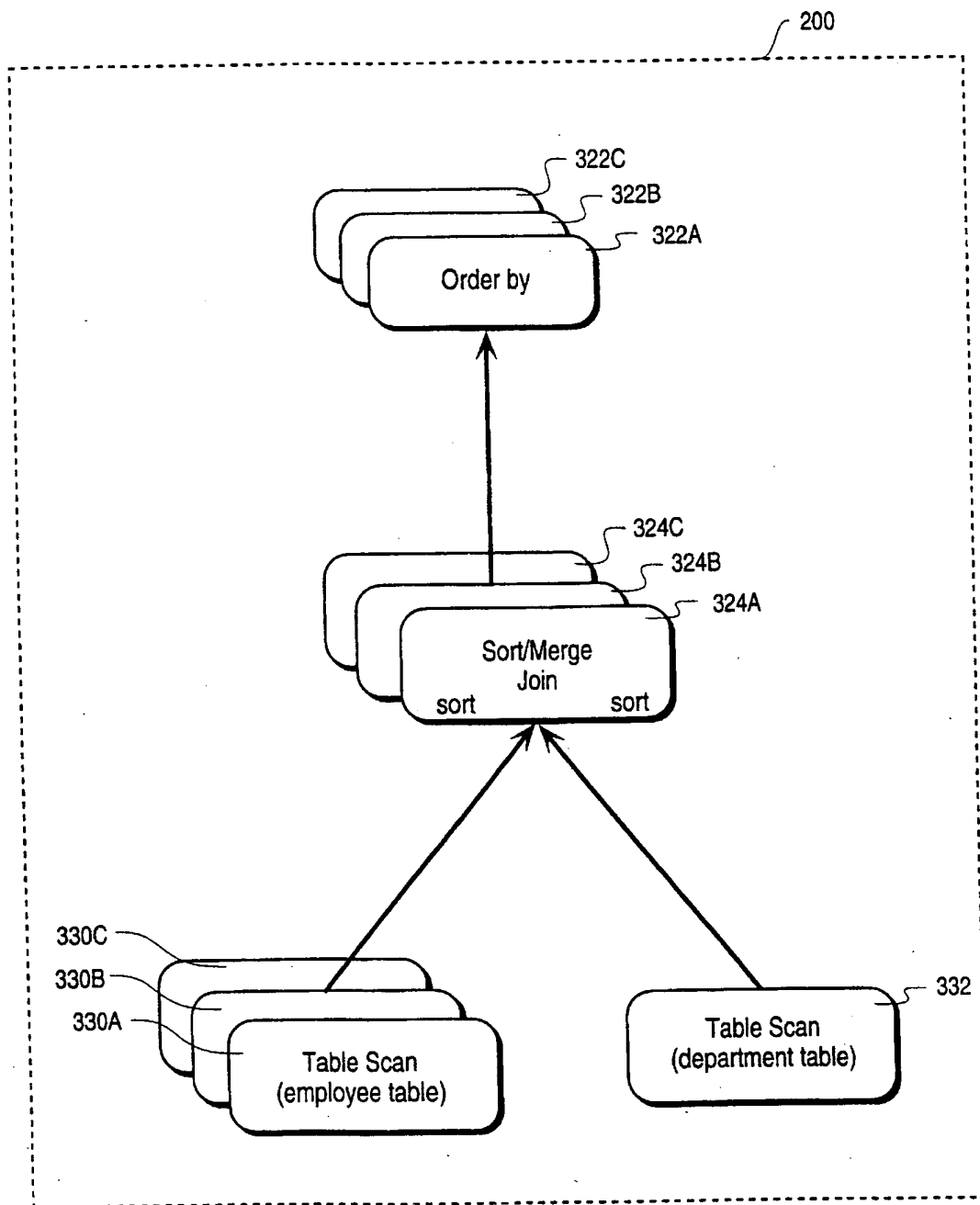


FIG. 3B

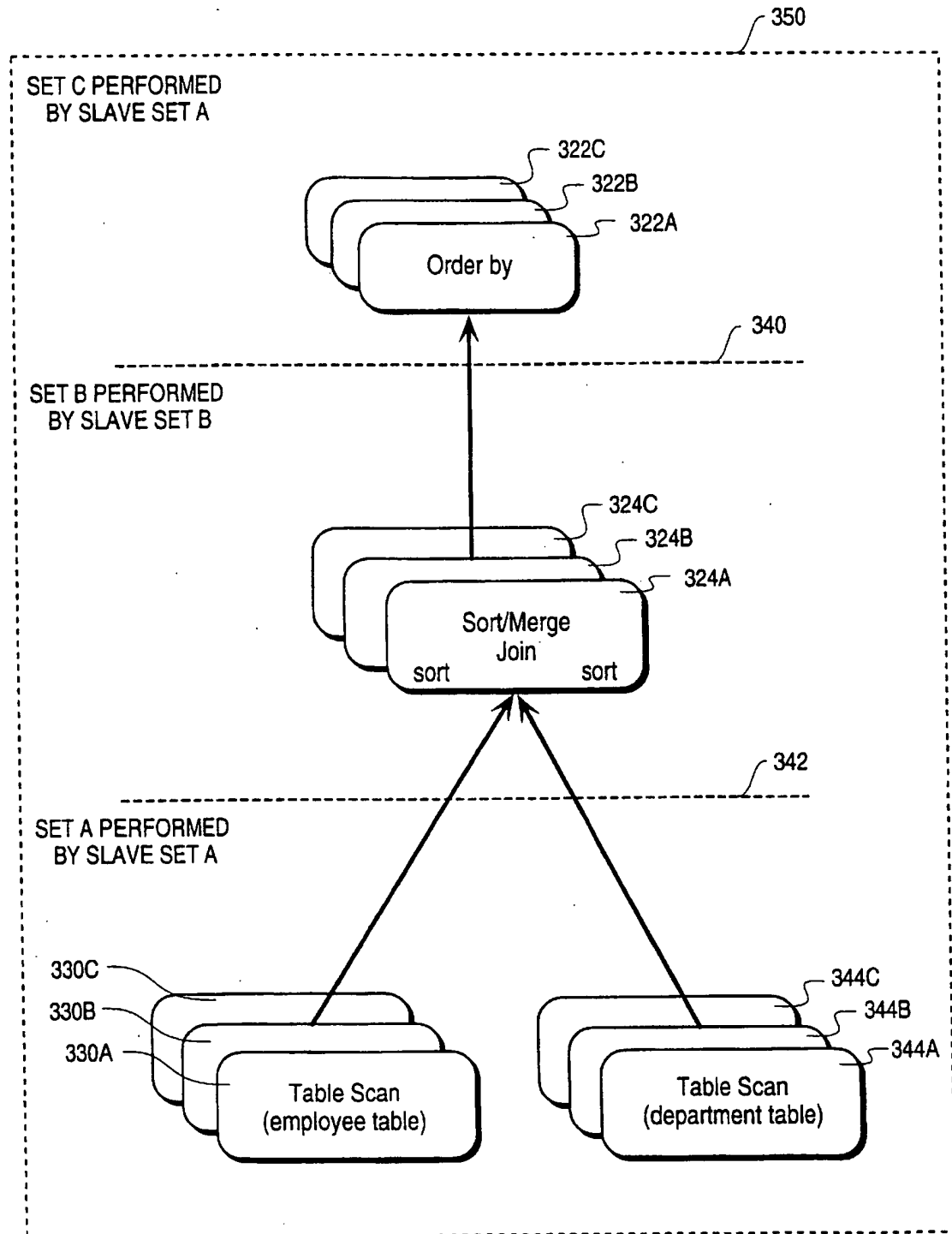


FIG. 3C



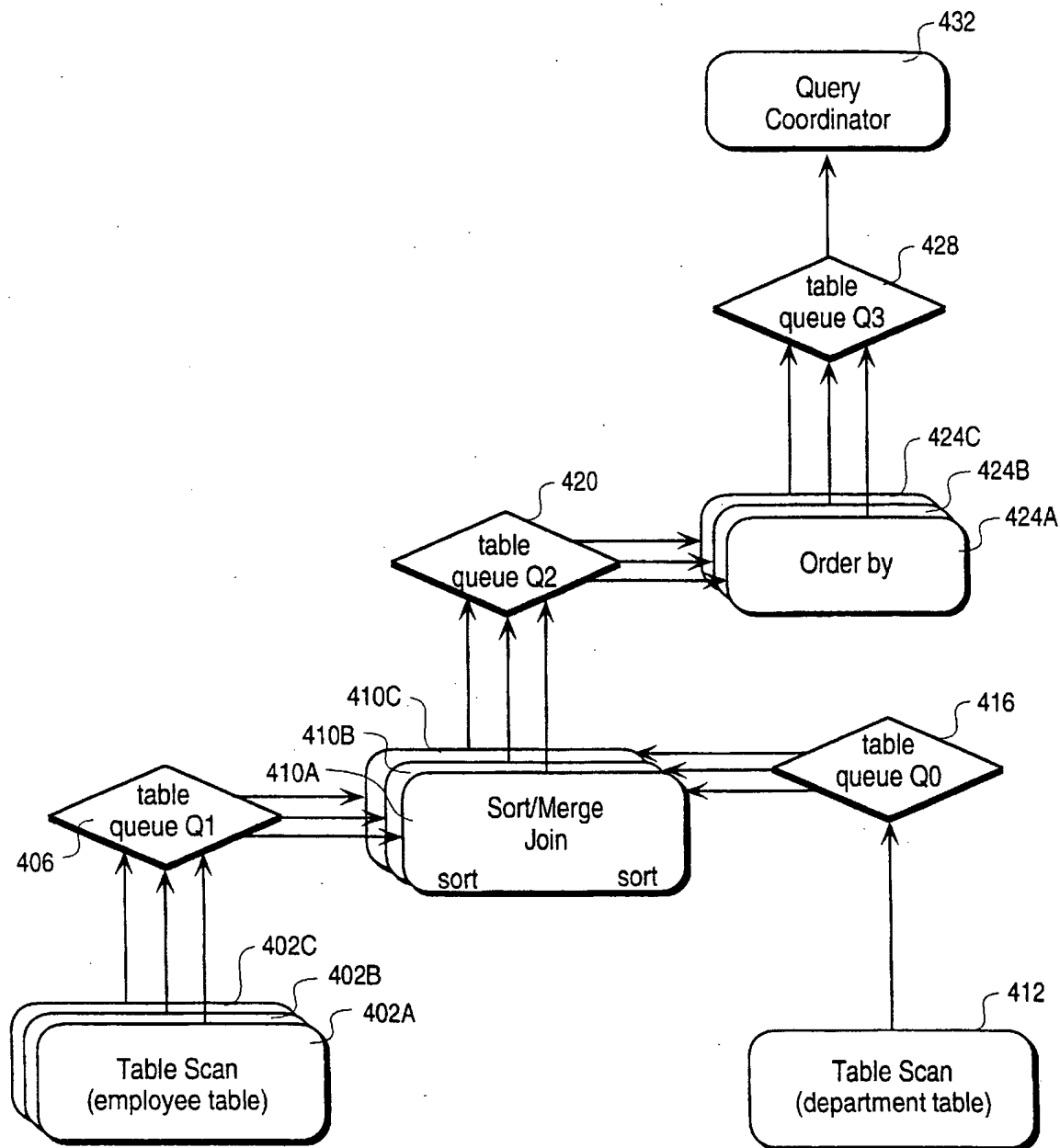
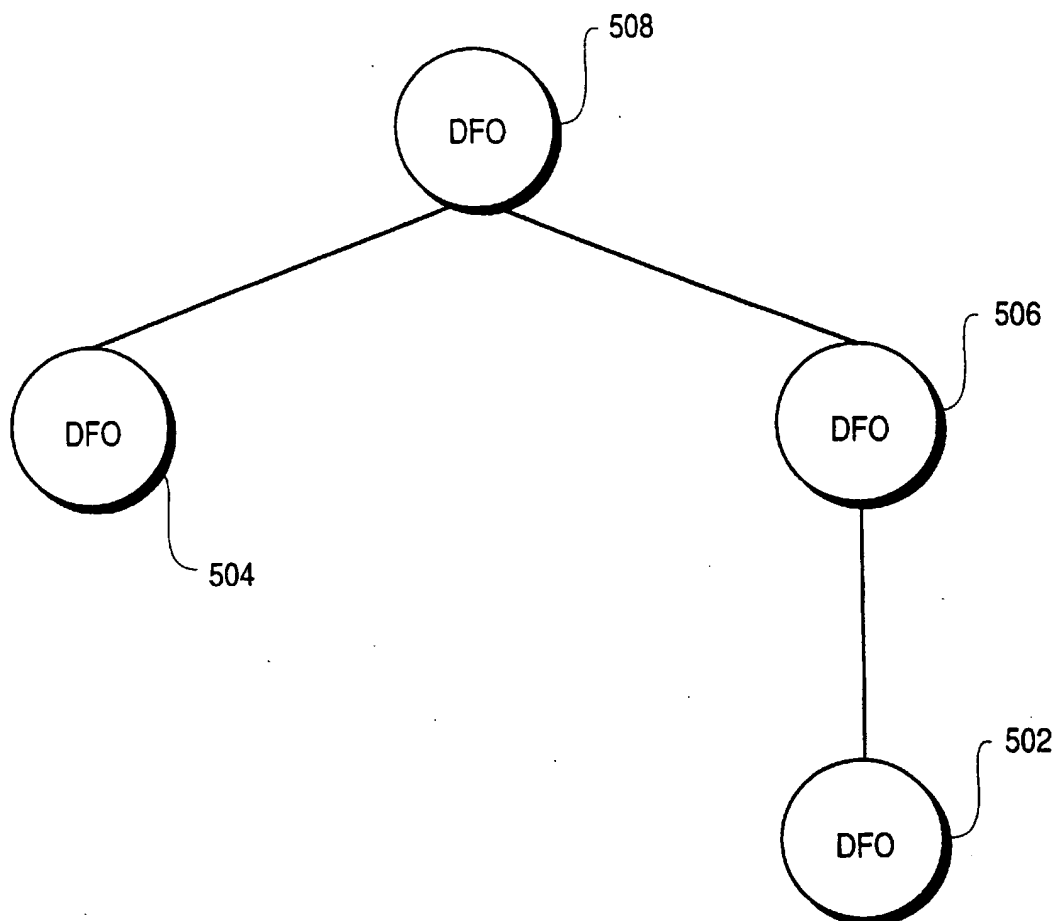


FIG. 4

**FIG. 5**

DFO Type	Type of DFO (e.g., table scan, sort/merge join)
Pointer to Parent	Pointer to parent node
Pointer to Sibling	Pointer to next-node
Row Source	Row source equivalent for this node
Operation	Identifies table node for this queue
Table Queue Identifier	
Skipped Node Information	Pointer to first child of parallelized node
Non-QC Node Information	Number of key columns in input table queue
Pointer to First Child	Parallelized node's partitioning type (e.g., hash, key range, rowid range, round robin)
Key Column Number	Number of clumped columns with parent
Partitioning Type	
Clumped Columns	
Predicates	
Control Blocks	Contains table scan information (e.g., table name and degree of parallelism)
Table Scan	Contains information for an indexed nested loop join (e.g., right and left input table)
Indexed Nested Loop Join	
names)	
Sort/Merge join	Contains information for a sort/merge join (e.g., merge or outer join control flags)
Index Creation	Contains information for index creation (e.g., column list, index type, and storage parameters)

FIG. 6A

Pointer to Next-to-Execute	Pointer to the next DFO to execute
Table Queue Identifier	Output table queue identifier
Rowid Table Number	Number of tables partitioned by rowid
SQL Statement Size	Size of the SQL statement representing DFO
SQL Statement	SQL statement representing DFO
Flags	
Started	Slave sends "Started" message upon receipt
Ready	Slave sends "Ready" message when input consumed
Close	Slave expects to be closed upon completion

FIG. 6B

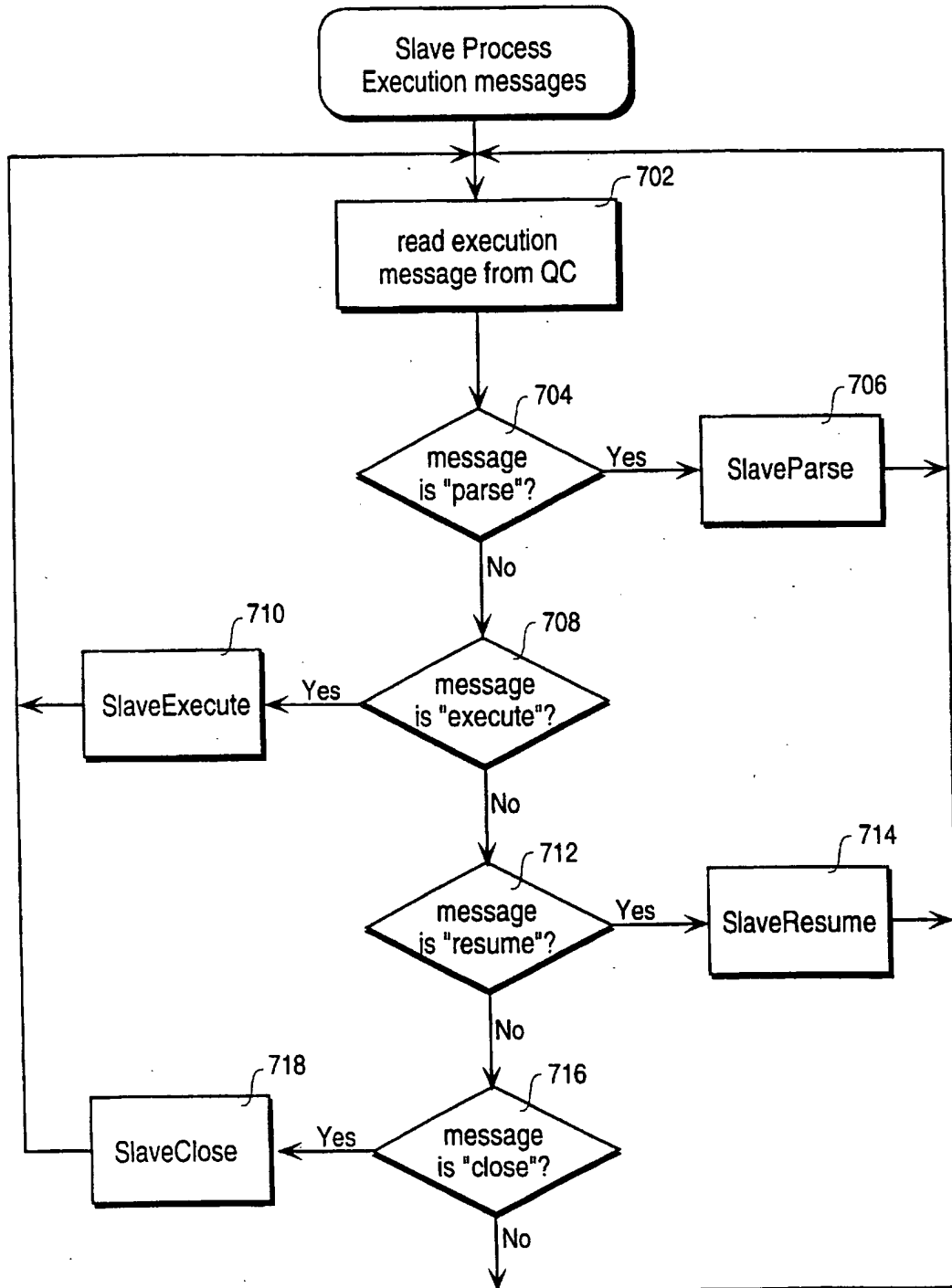
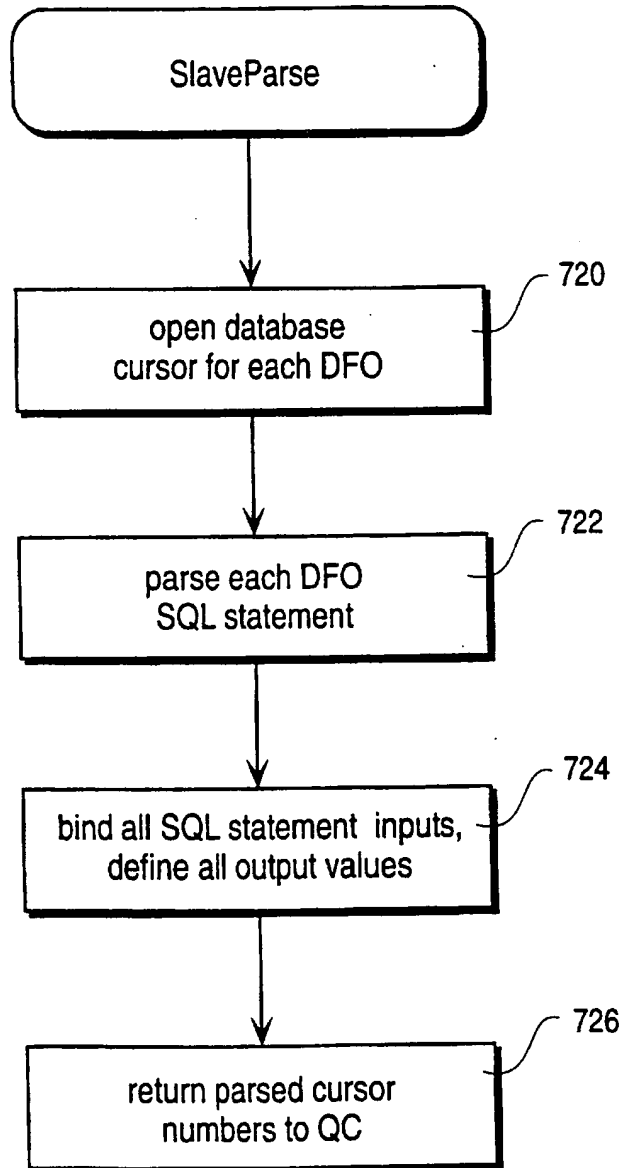


FIG. 7A

**FIG. 7B**

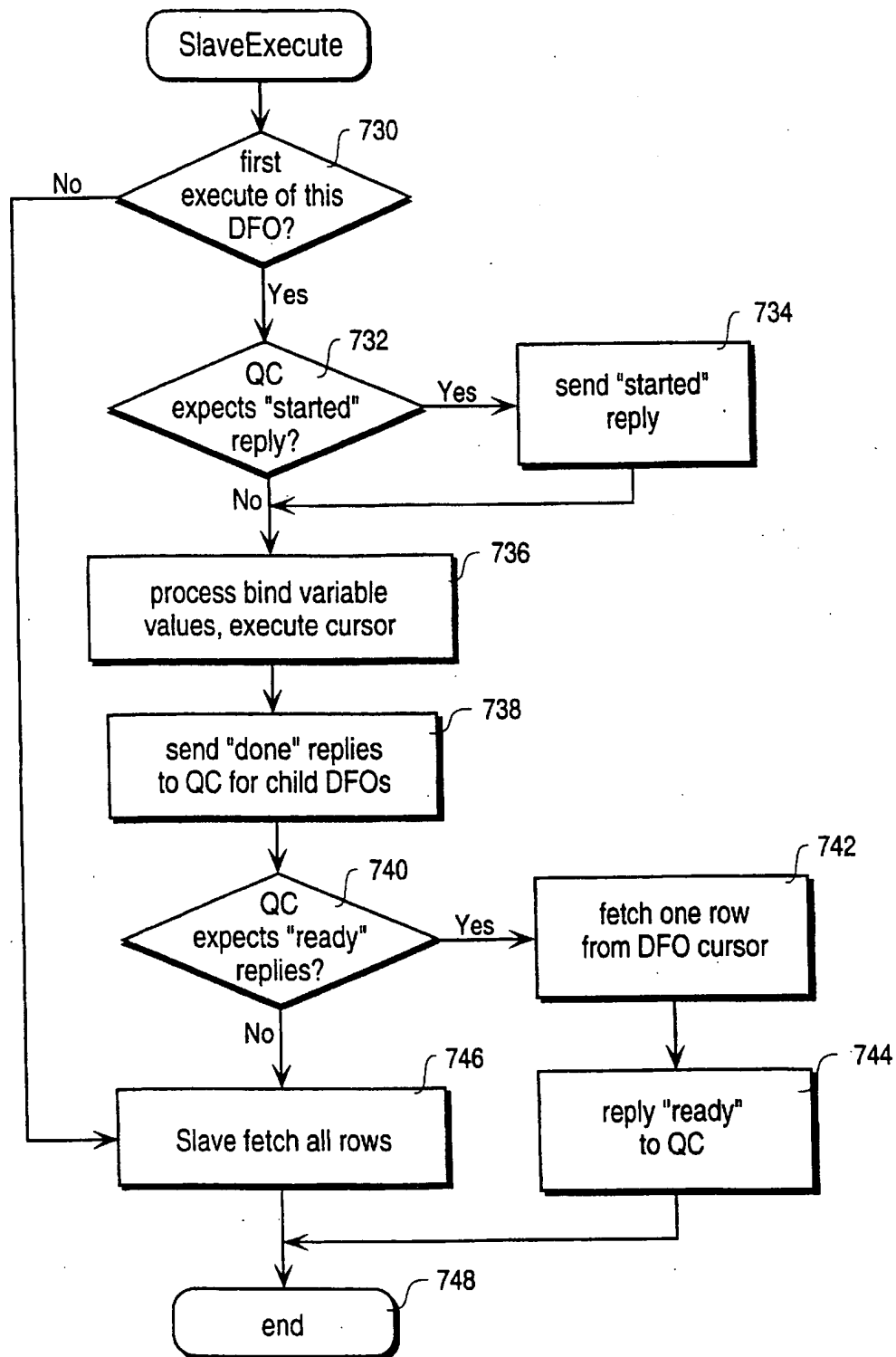


FIG. 7C

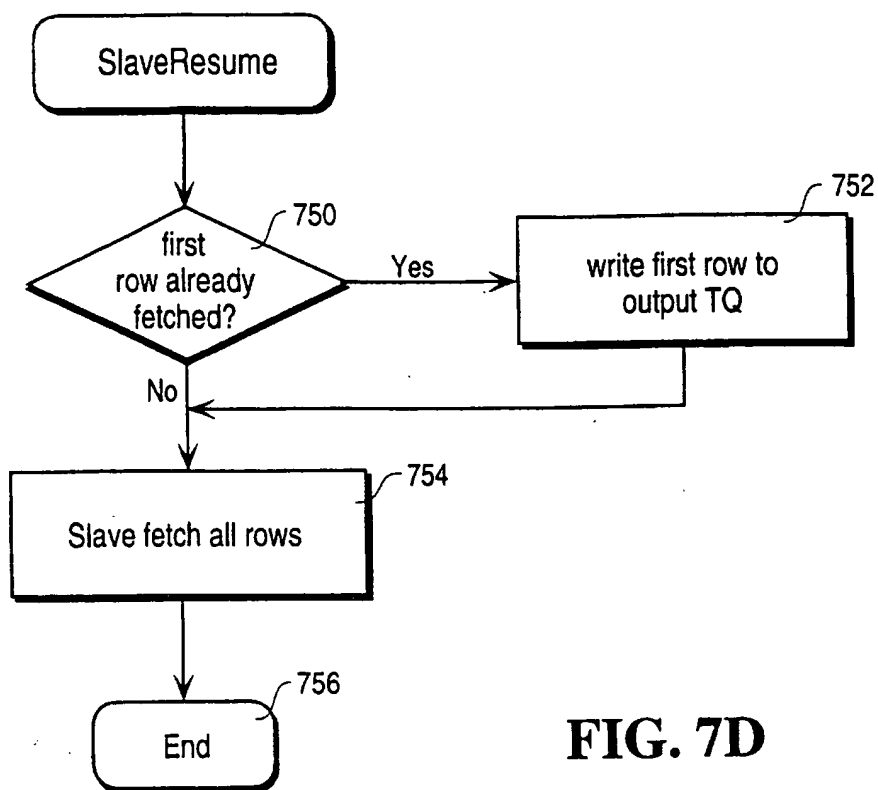


FIG. 7D

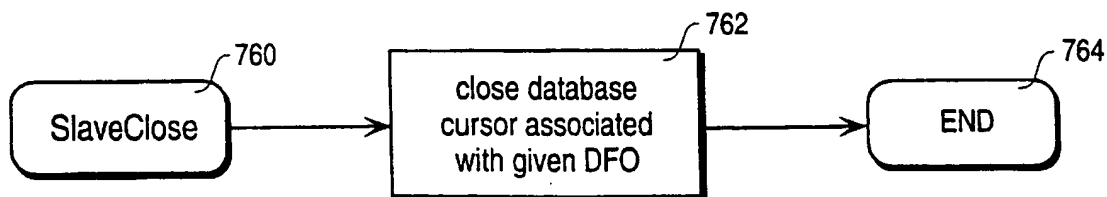


FIG. 7E



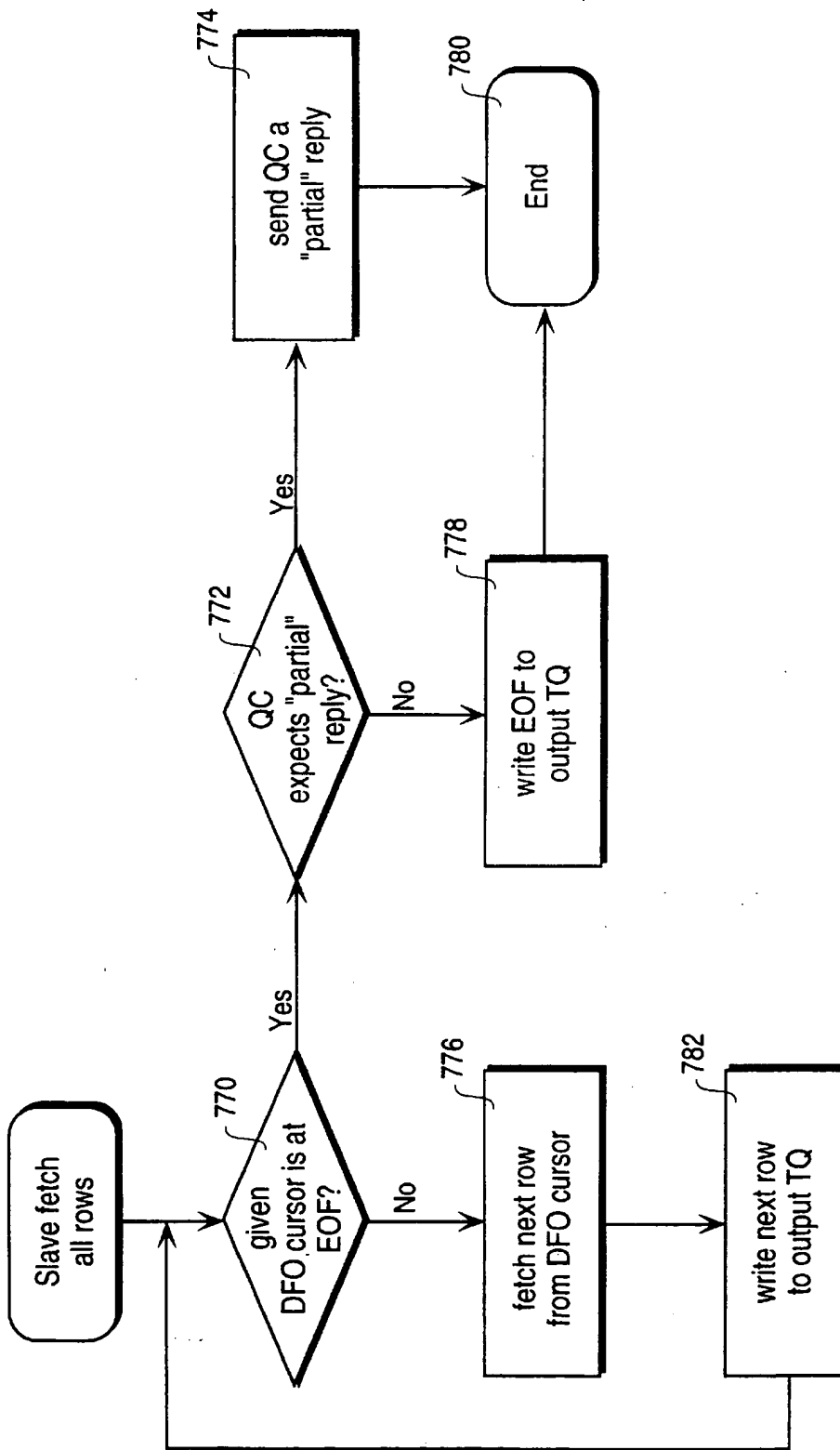


FIG. 7F

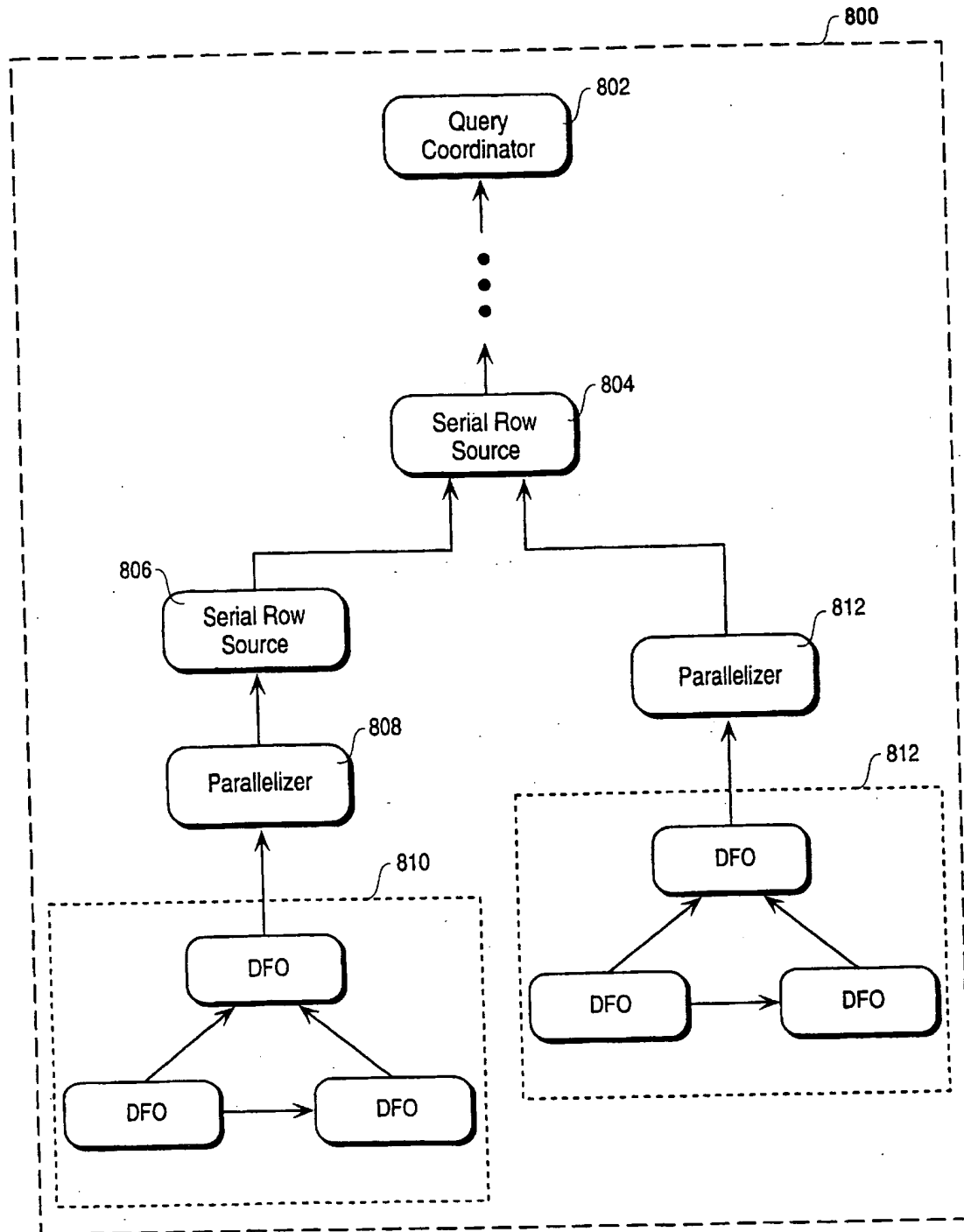


FIG. 8

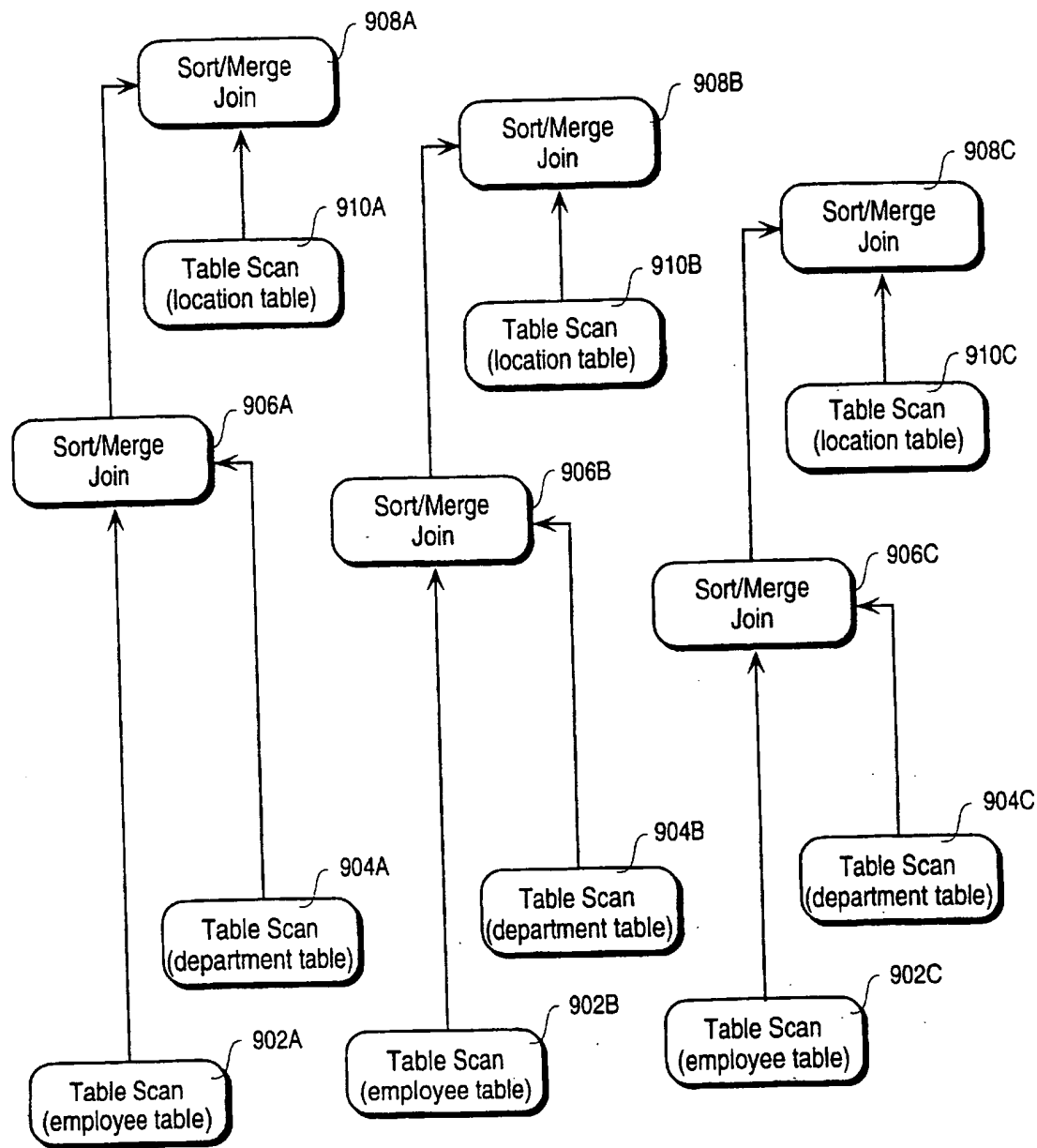


FIG. 9

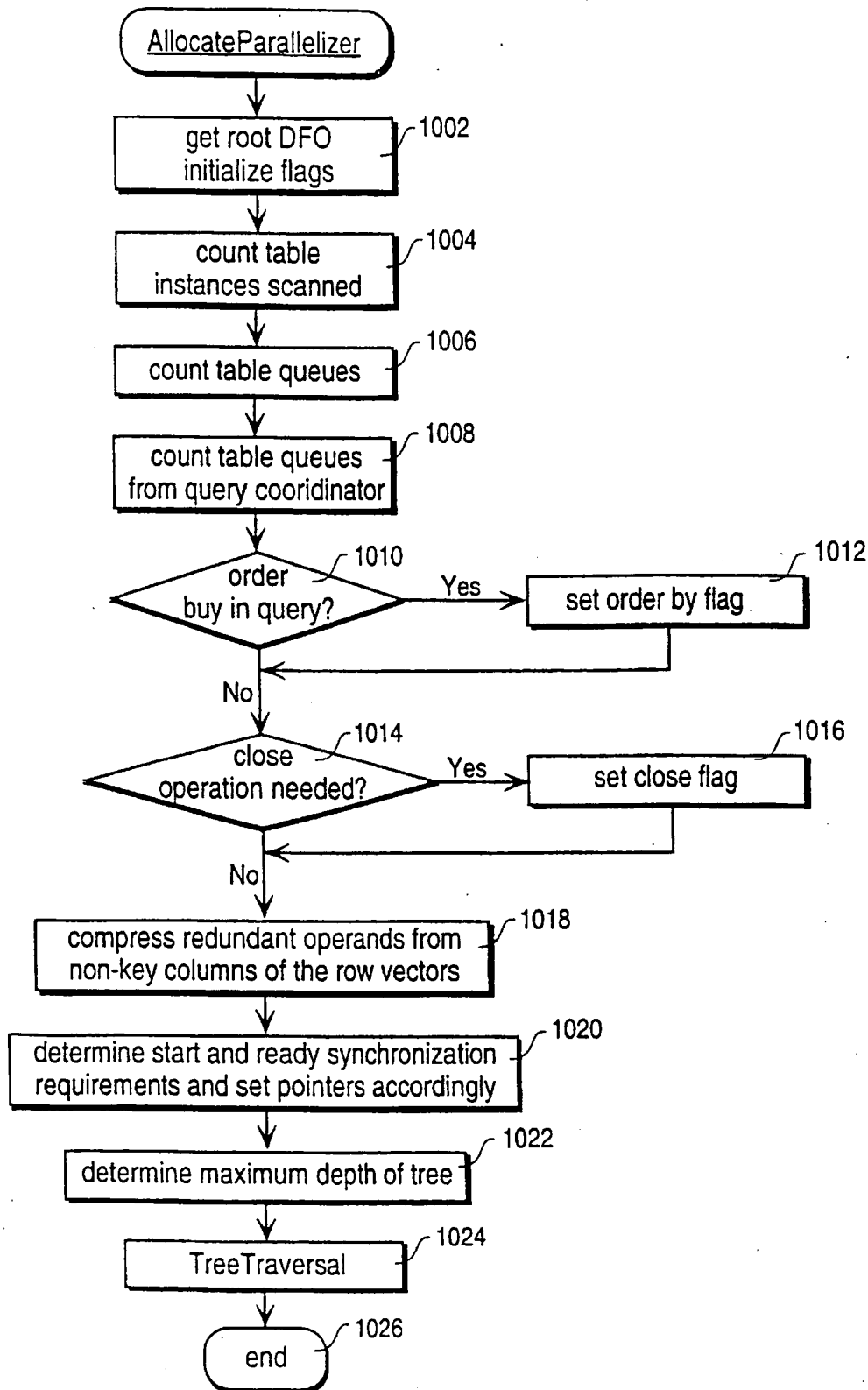


FIG. 10A

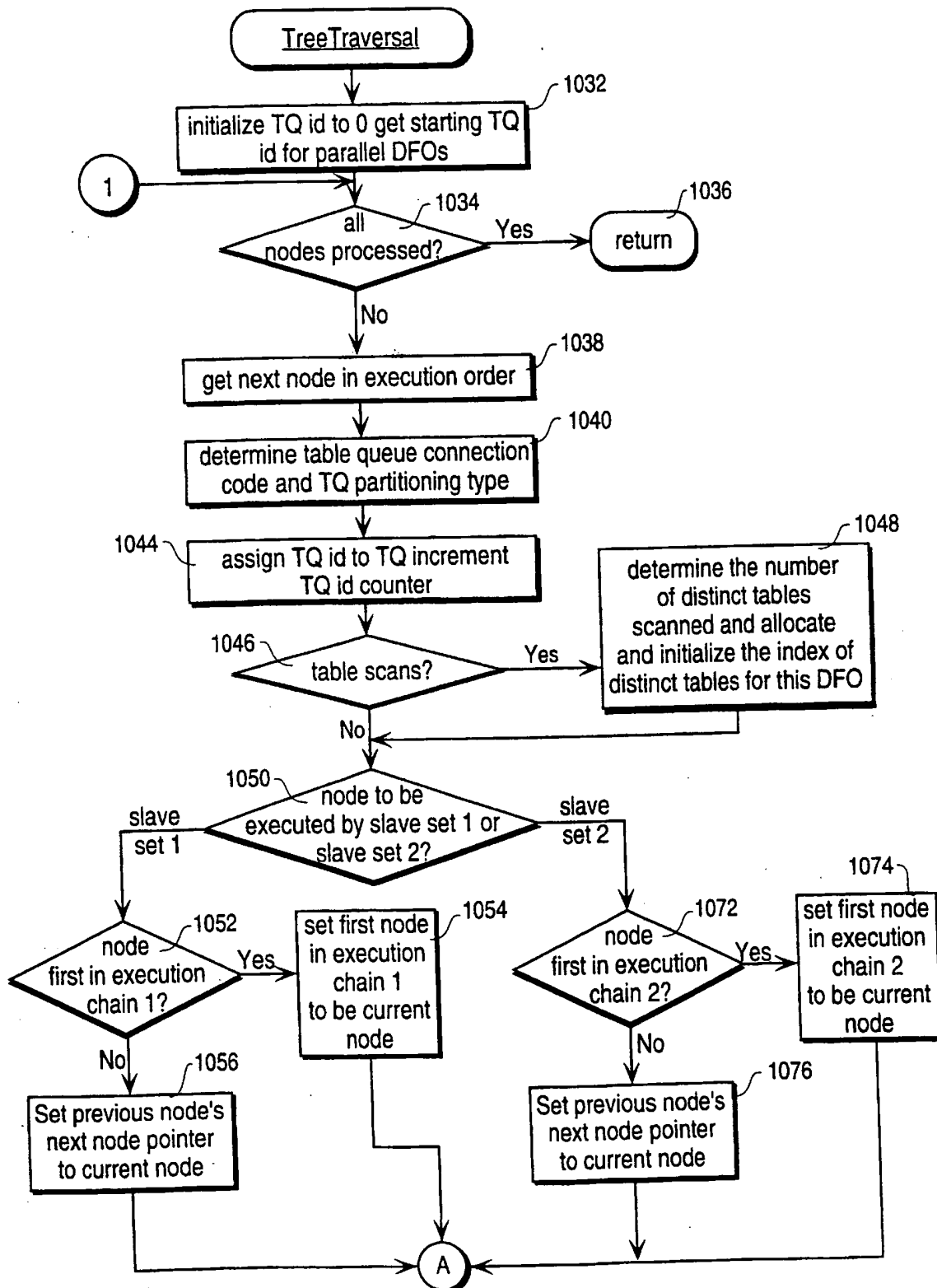
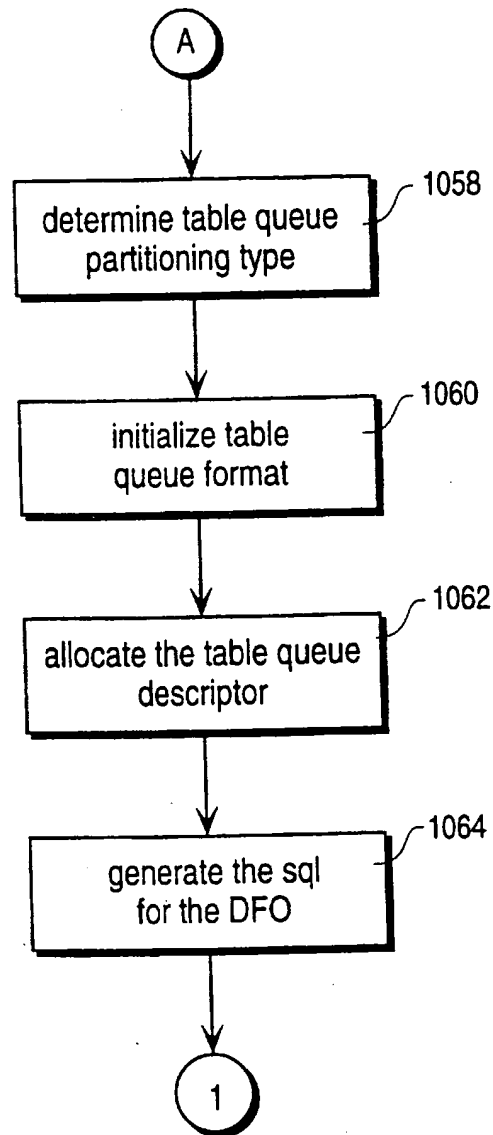


FIG. 10B

**FIG. 10C**

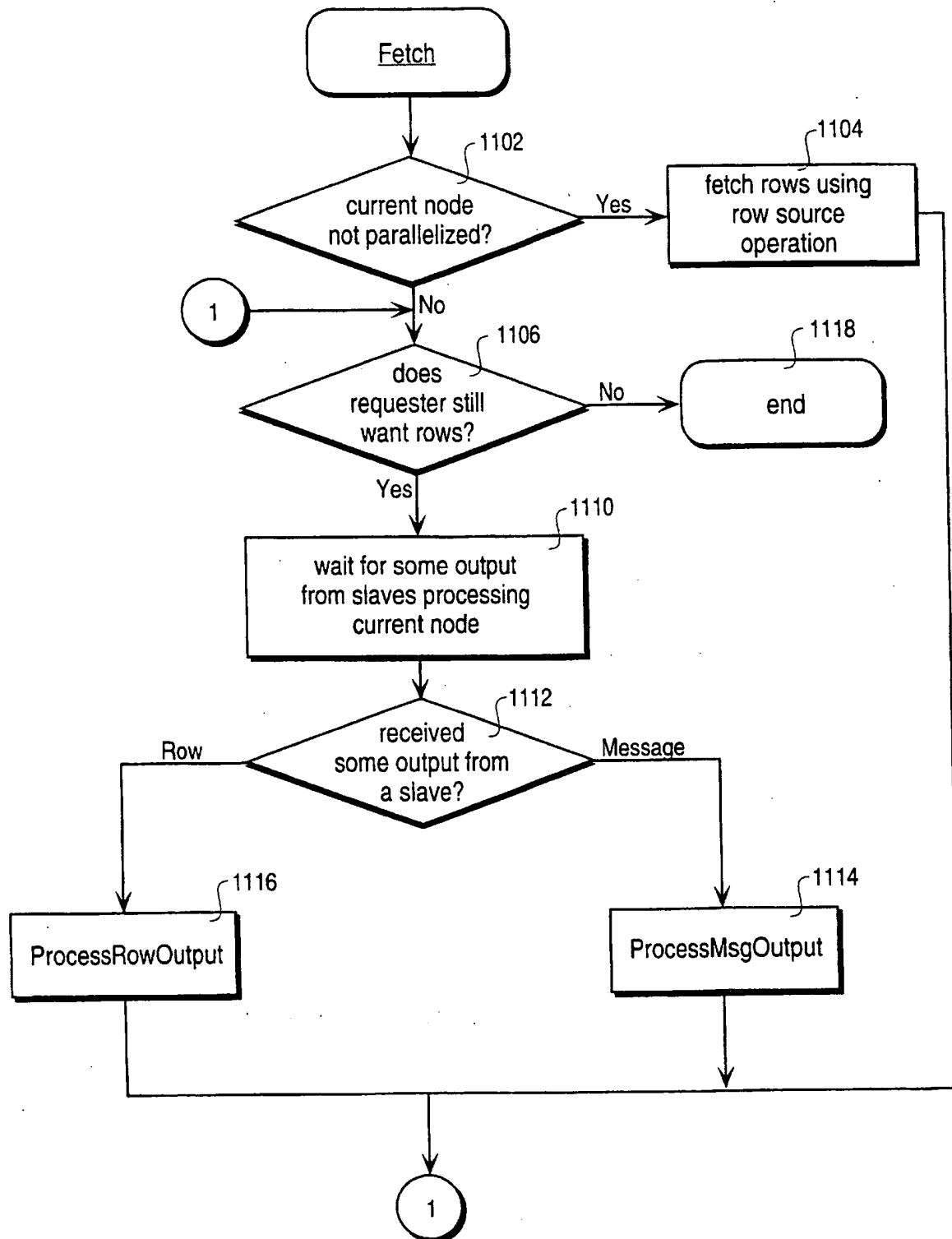


FIG. 11A

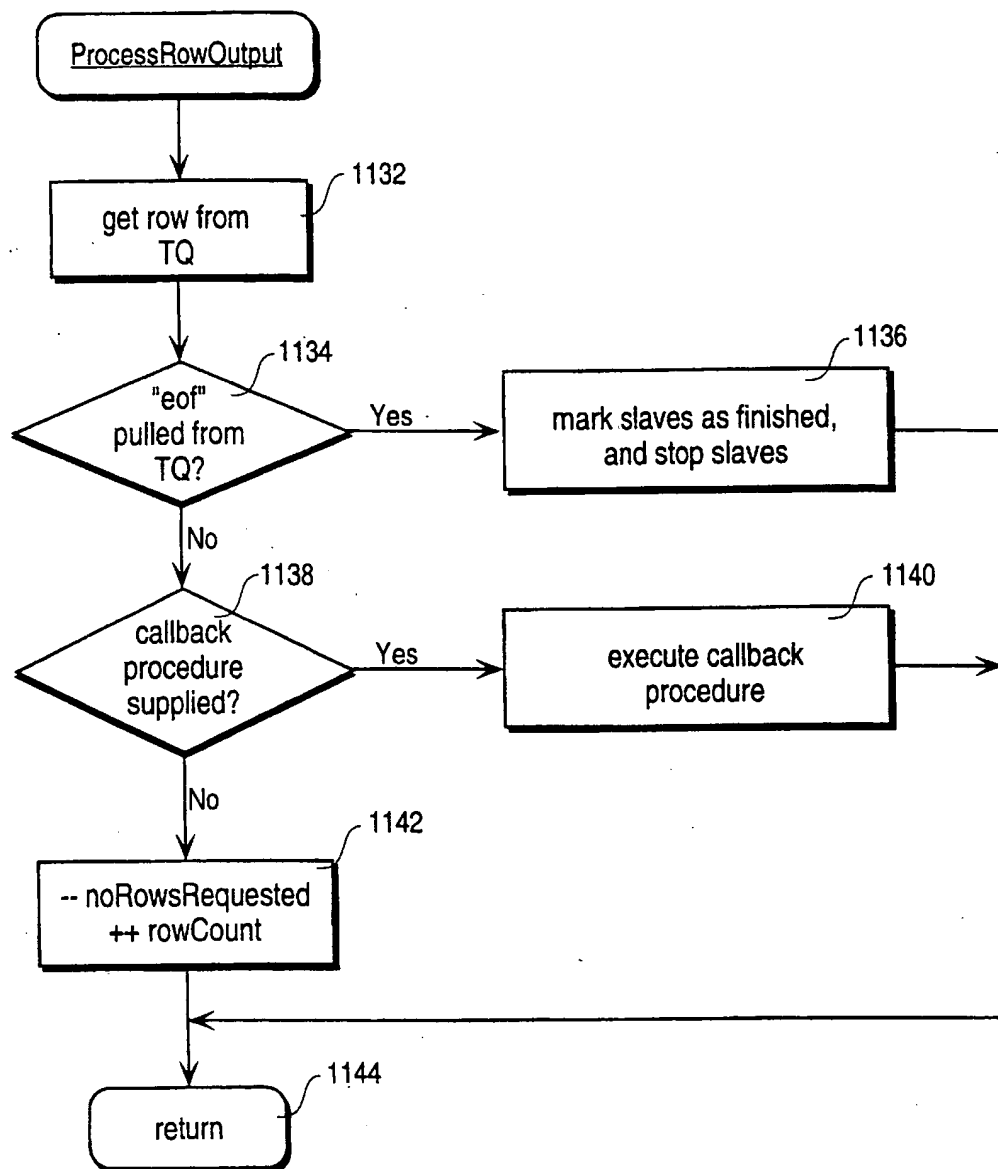


FIG. 11B



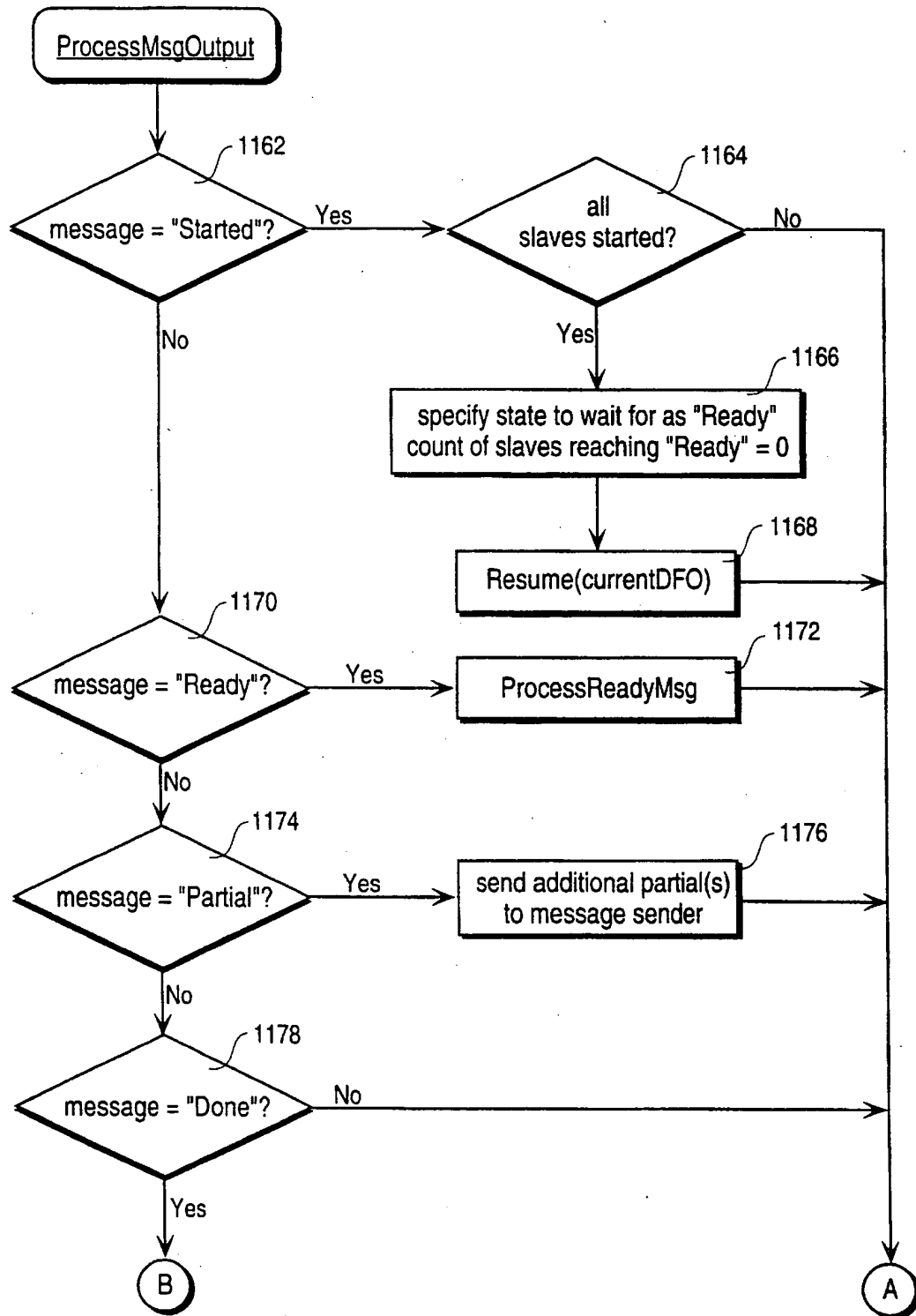


FIG. 11C

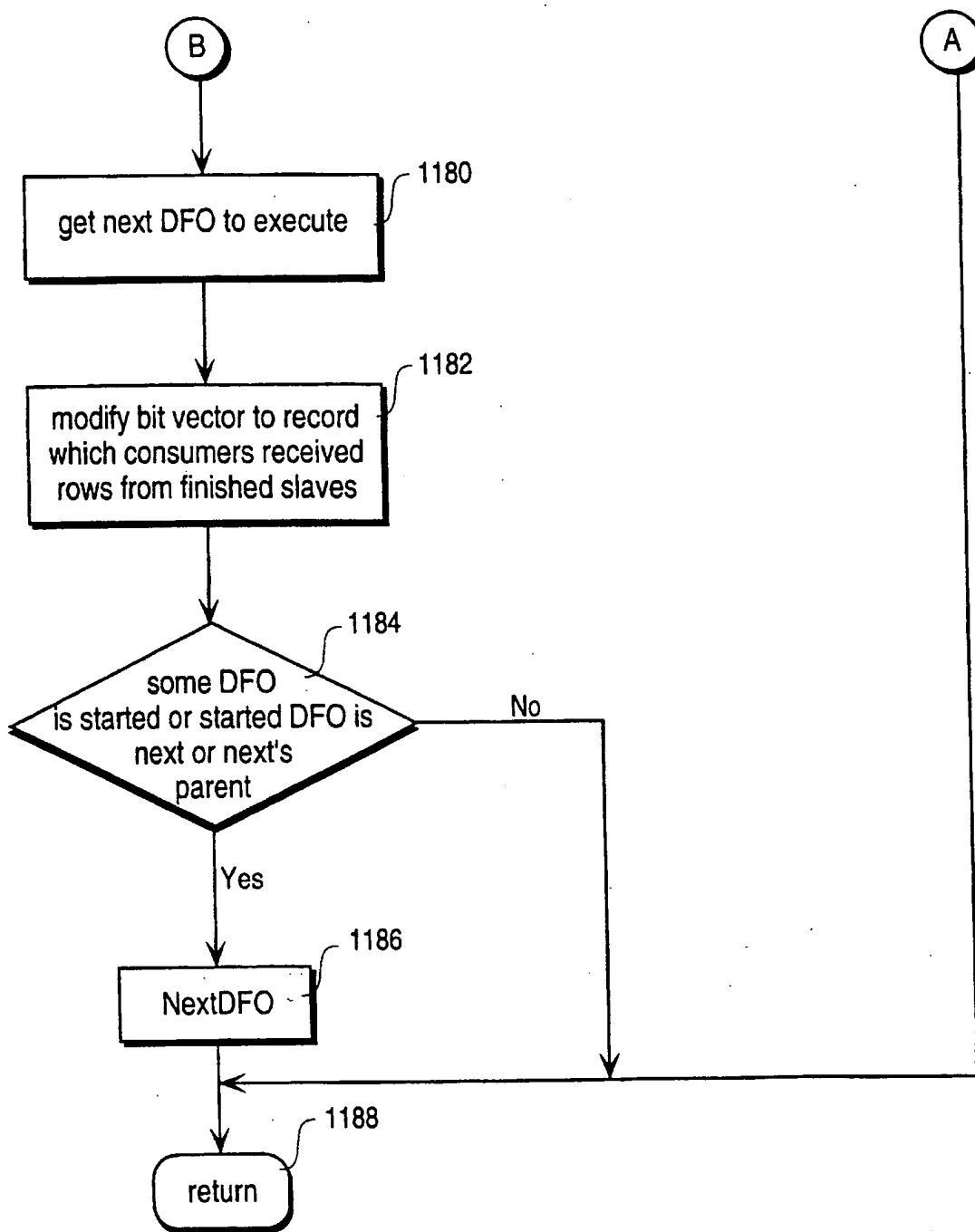


FIG. 11D

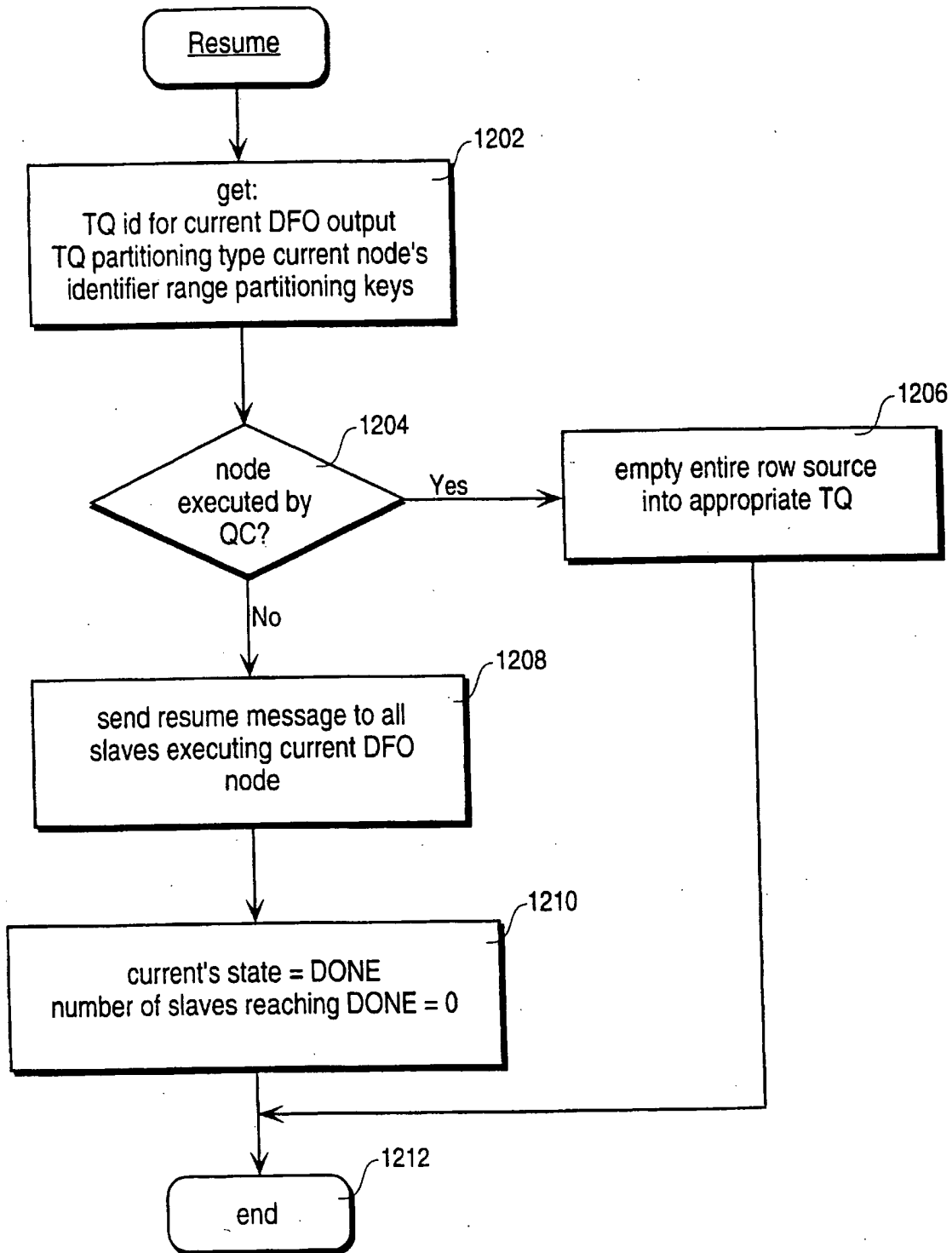


FIG. 12

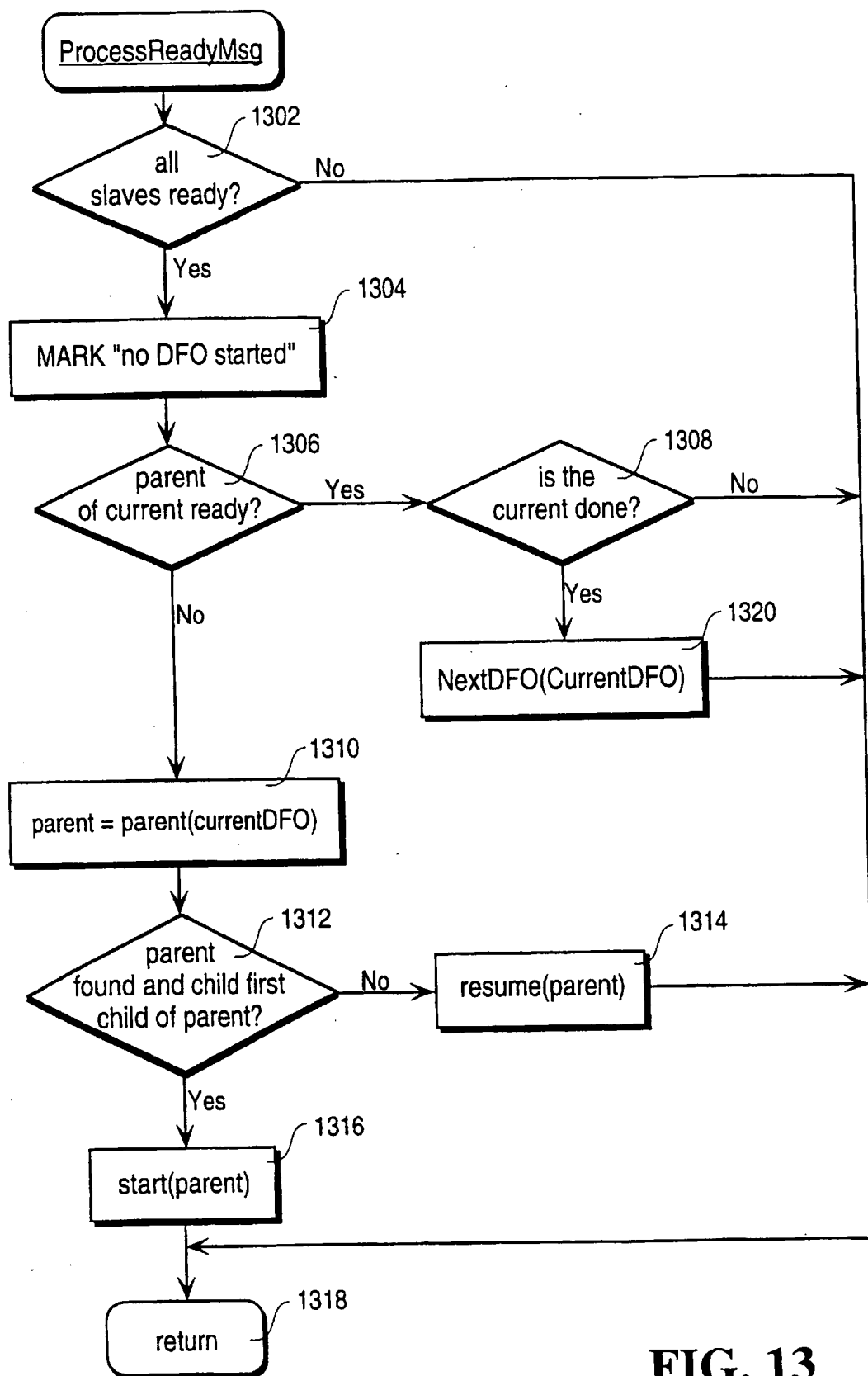


FIG. 13

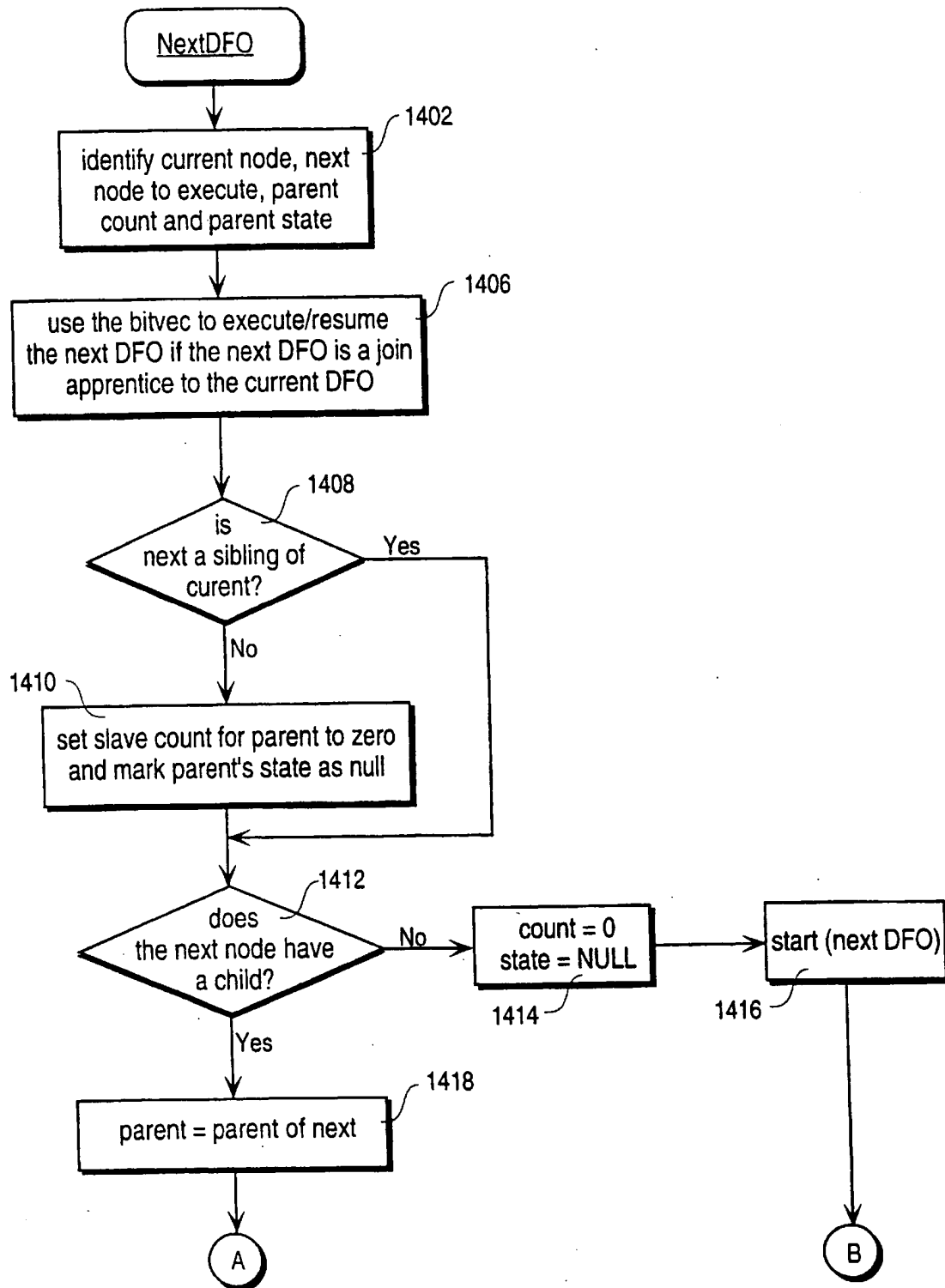


FIG. 14A

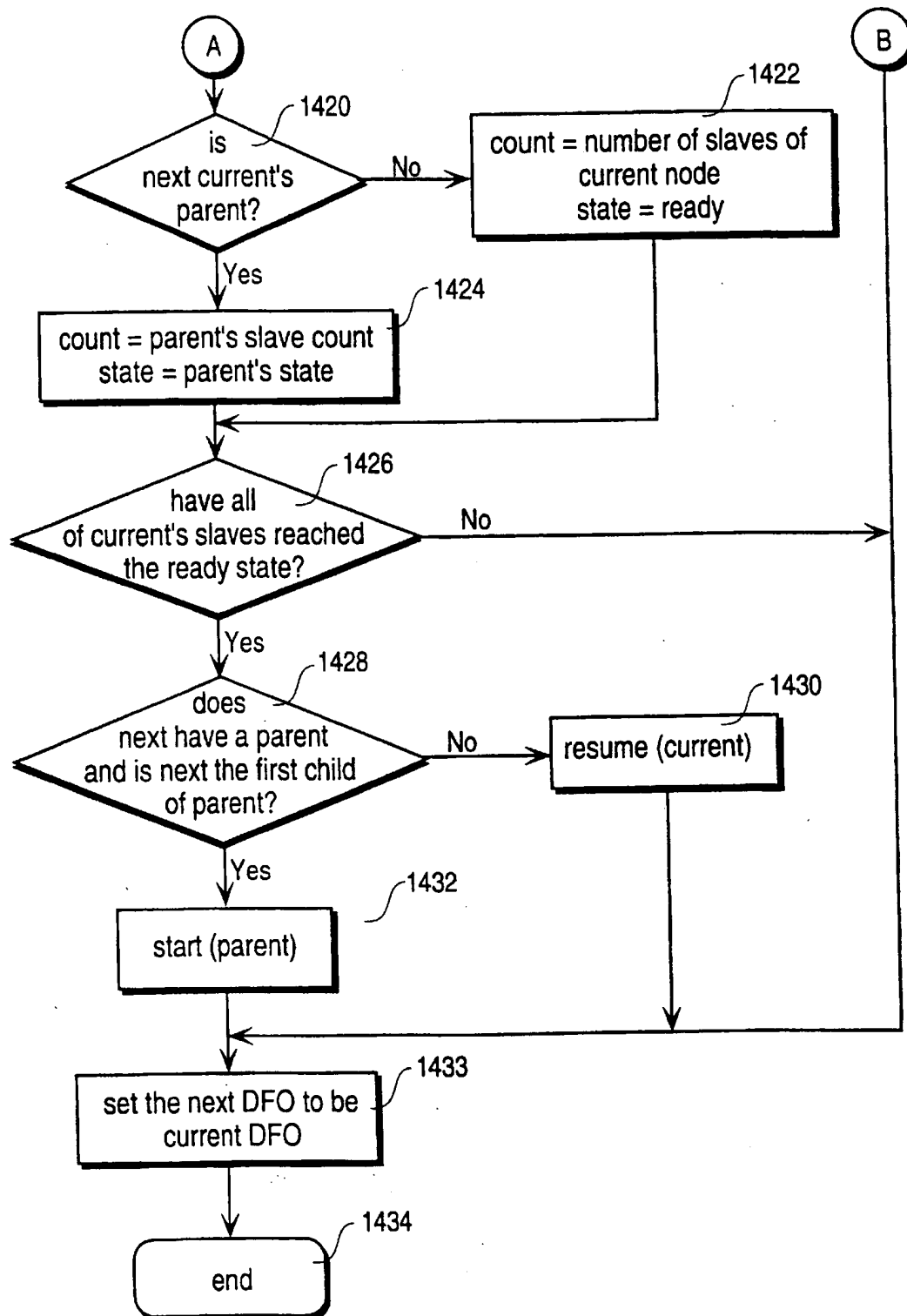


FIG. 14B

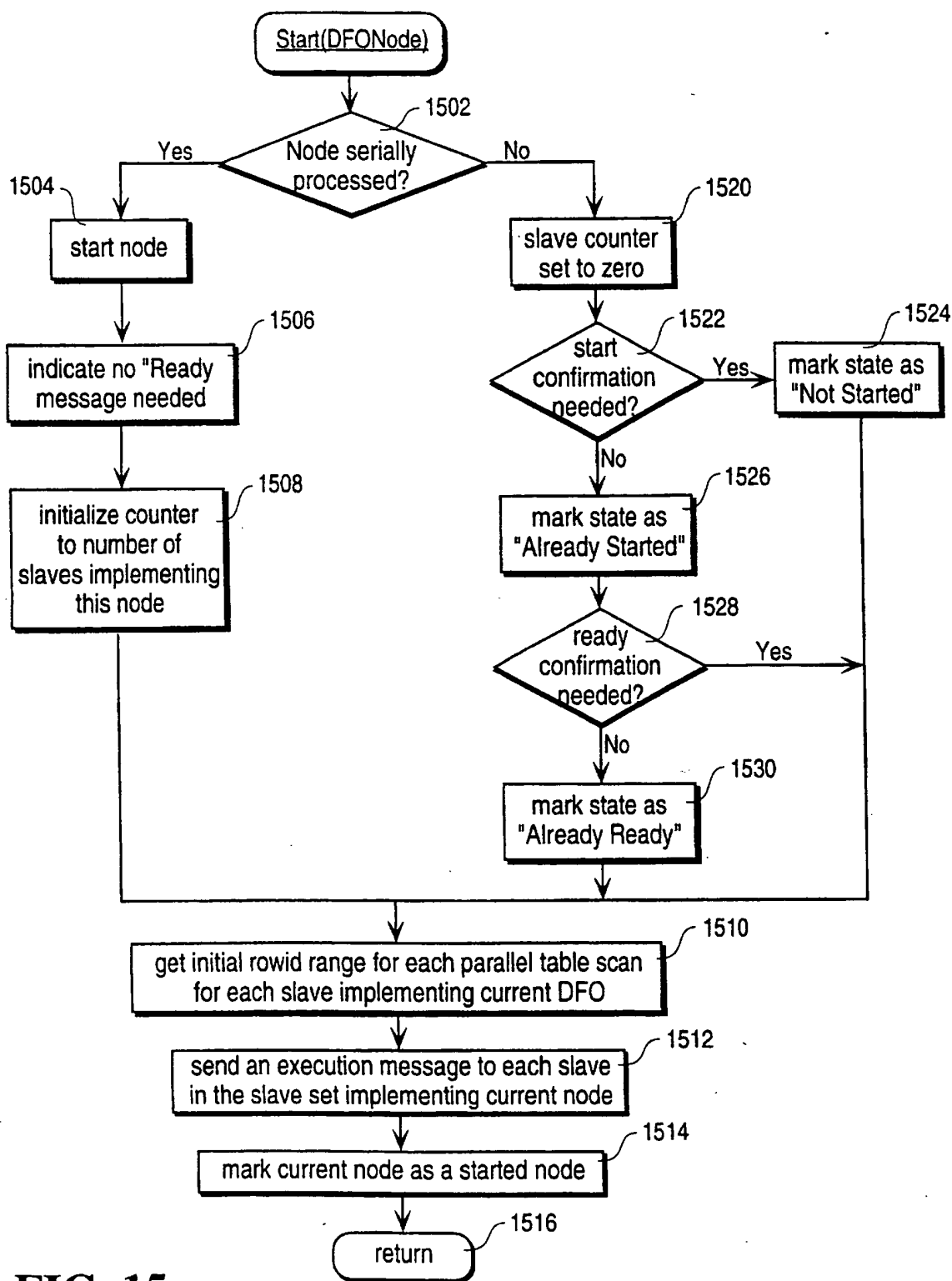


FIG. 15

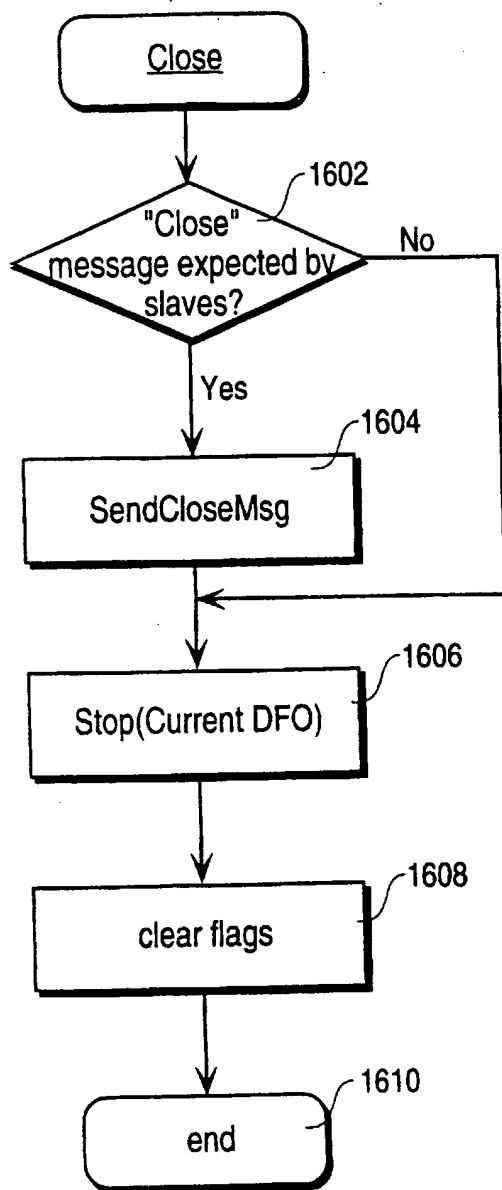


FIG. 16



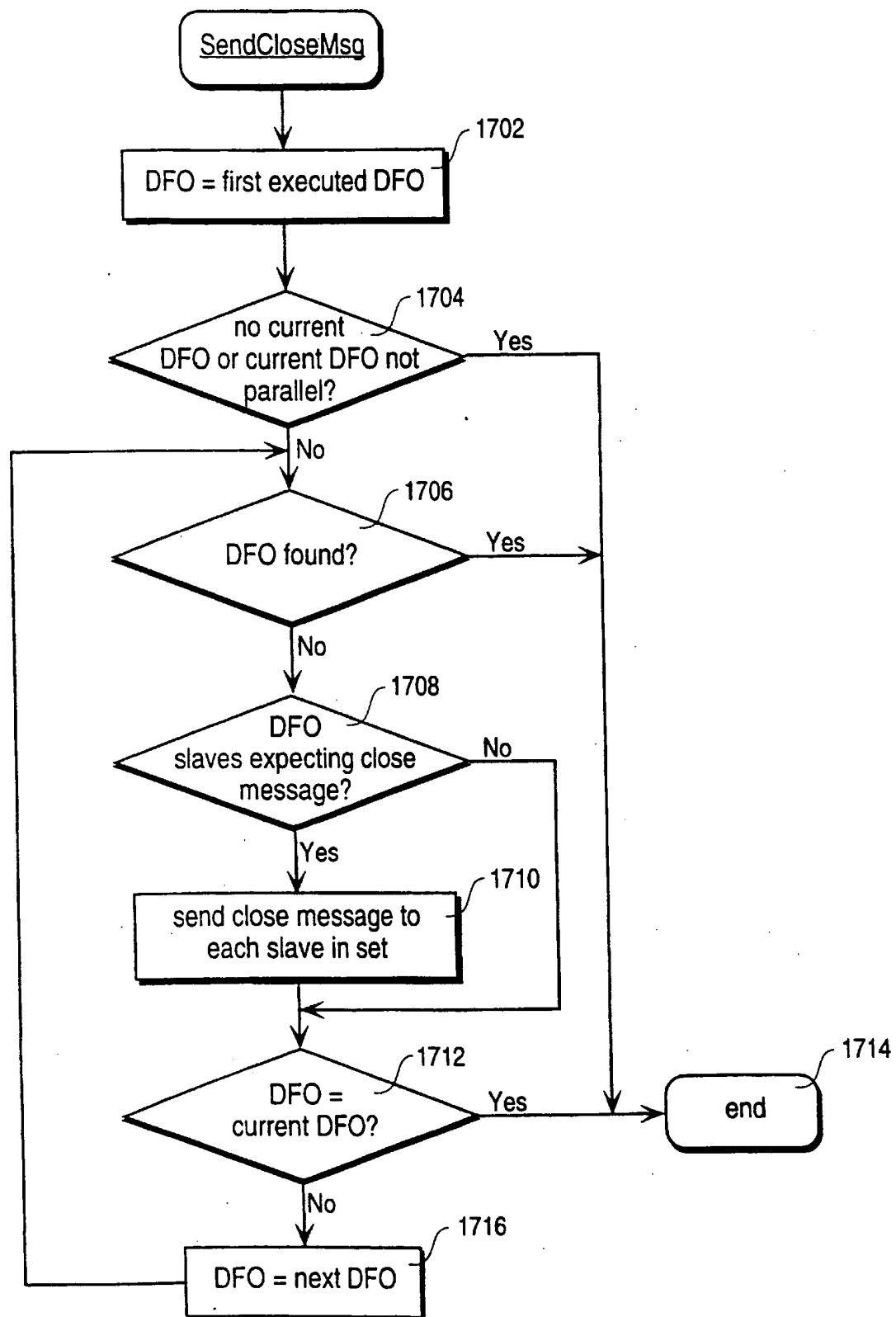


FIG. 17

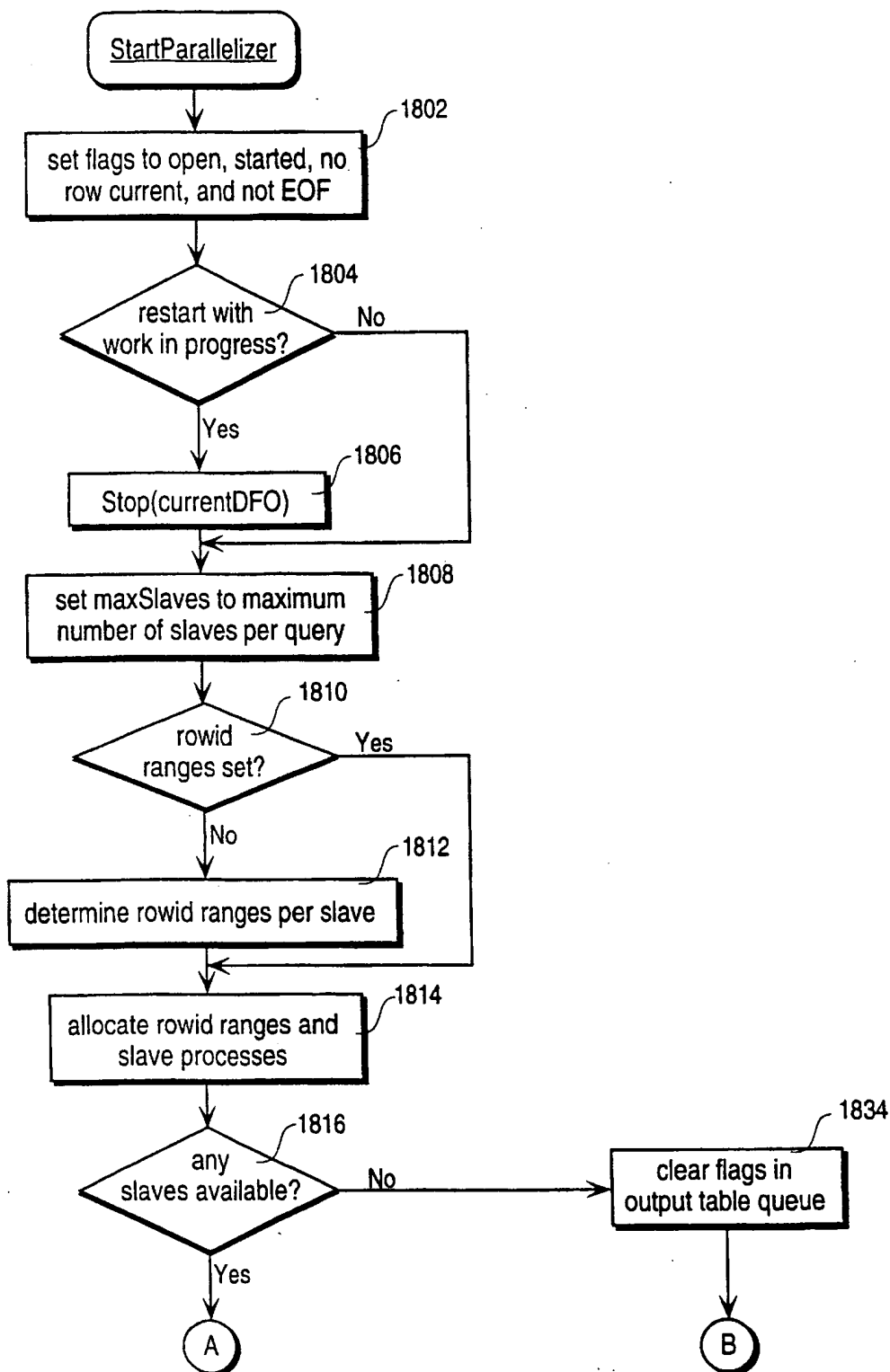
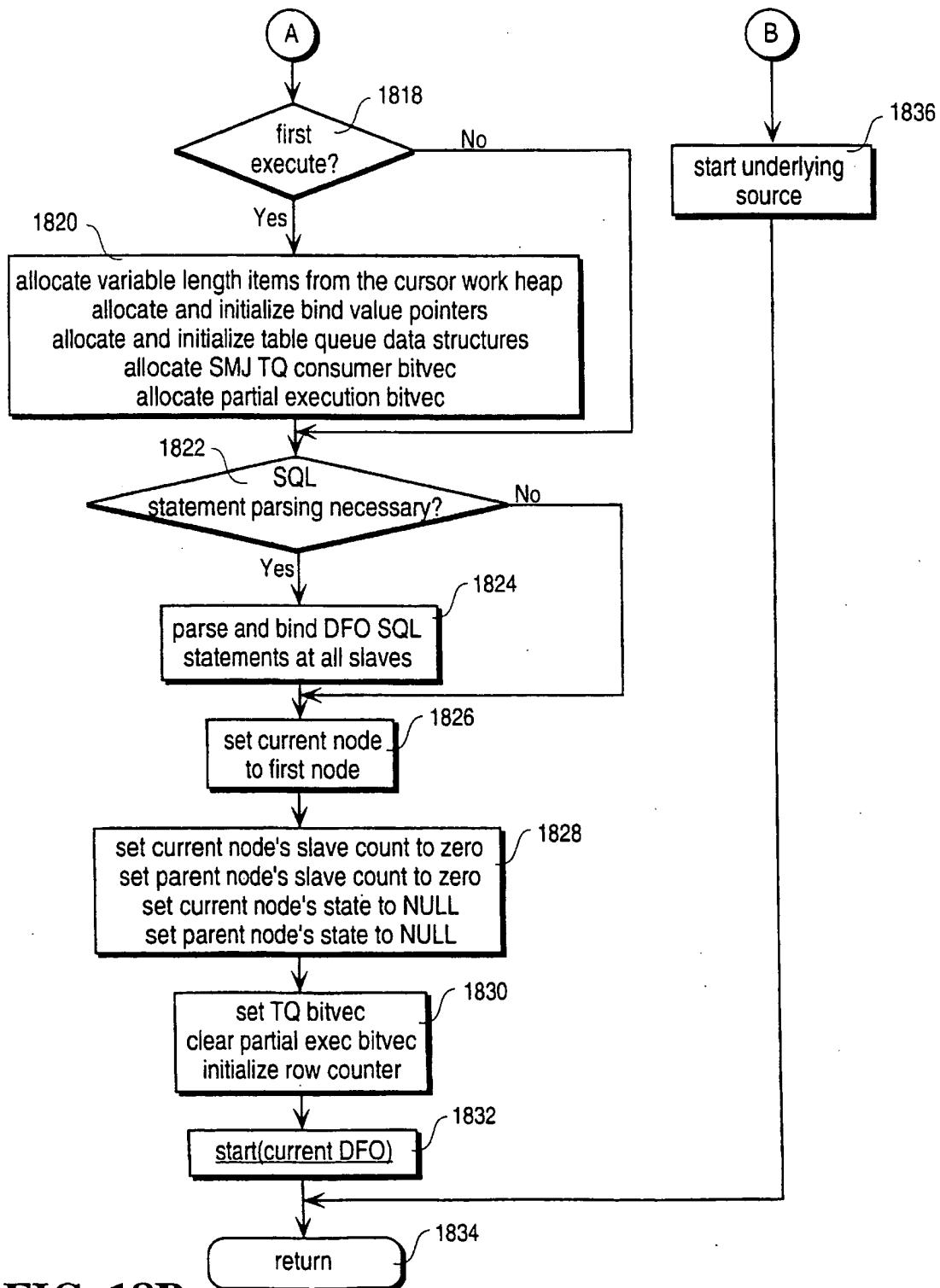


FIG. 18A



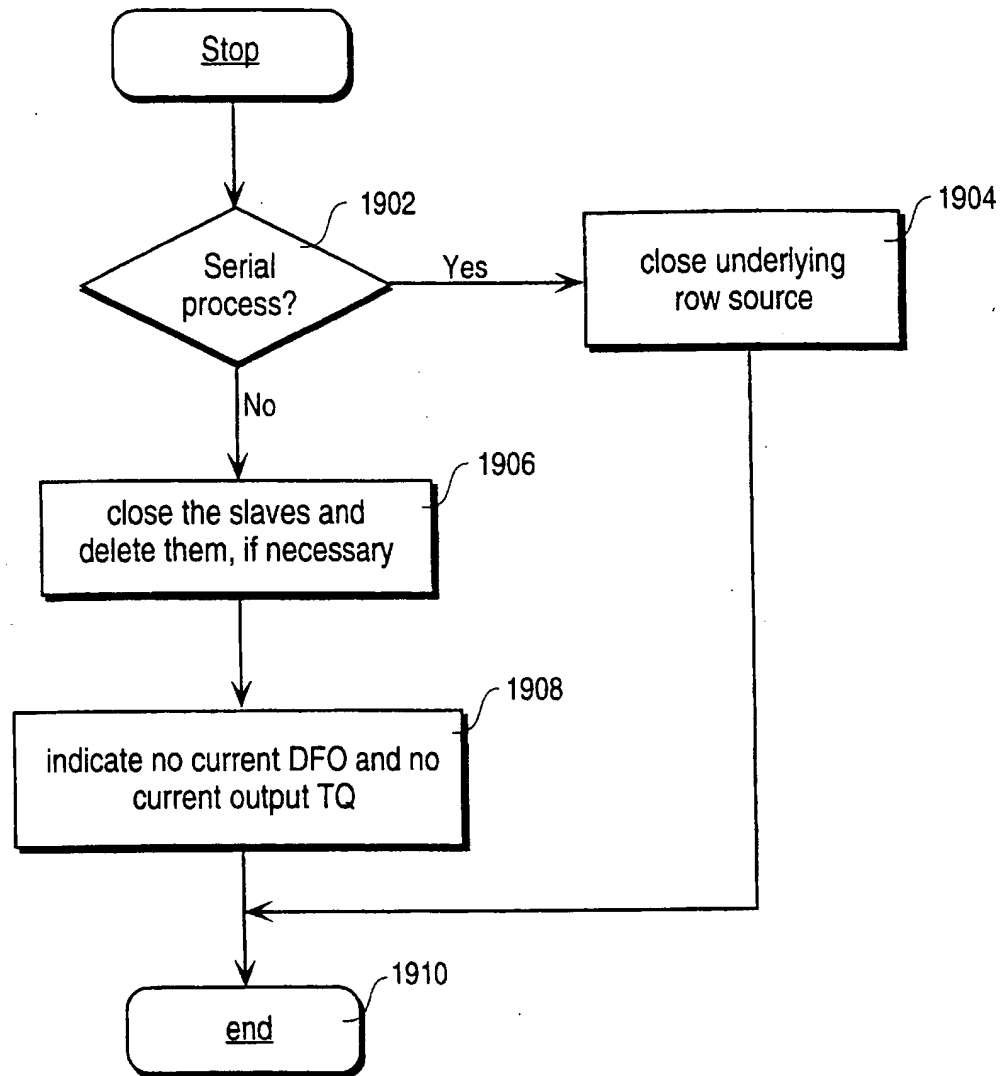


FIG. 19